



NOTICE OF INTENT (NOI) FOR THE REMEDIATION GENERAL PERMIT (RGP)

226 HARVARD AVENUE ALLSTON, MASSACHUSETTS

Prepared for: Cumberland Farms, Inc 777 Dedham Street Canton, MA

Project No. 91-205546 February 11, 2008

Prepared By: ECS 607 North Avenue, Suite 11 Wakefield, MA 01880 tel 781.246.8897 fax 781.246.8950 www.ecsconsult.com



607 North Avenue, Suite 11, Wakefield, MA 01880 tel 781.246.8897 fax 781.246.8950 www.ecsconsult.com

February 12, 2008 File No. 91-205546

US Environmental Protection Agency Ann Herrick Industrial NPDES Permits (CIP) 1 Congress Street, Suite 1100 Boston, MA 02114-2023

> RE: 226 Harvard Avenue Allston, MA

Dear Ms Herrick:

On behalf of Cumberland Farms, Inc., Environmental Compliance Services, Inc. is pleased to submit a Notice of Intent (NOI) for the Remediation General Permit (RGP) for the property located at 226 Harvard Avenue in Allston, Massachusetts. In December 2007 Cumberland Farms, Inc sold the property to 226 Harvard Associates, LLC. The objectives of the NOI and RGP are to properly manage, remove, and dispose of petroleum contaminated groundwater present at the Site under RTN 3-4435, which may be encountered during on-going construction activities being conducted on-site.

If you should have any questions concerning this submittal, please do not hesitate to contact our office.

Sincerely,

ENVIRONMENTAL COMPLIANCE SERVICES, INC.

Geologist/Environmental Scientist

Senior Project Manager

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of facility/site: Former Gasoline	Station	Facility/site address:							
Location of facility/site : longitude: 71*07'47" latitude: 42*20'57"	Facility SIC code	e(s):	Street: 226 Harvard Avenue						
b) Name of facility/site owner: Cumberland	d Farms, Ir	nC	Town: Allston						
Email address of owner: CJohnson@cum	berlandfarı	ms.com	State:	Zip:	County:				
Telephone no.of facility/site owner: 781-828-4	1900] MA	02134	Suffolk				
Fax no. of facility/site owner: 781-575-9536	3		Owner is (check one): 1. Fed		nl				
Address of owner (if different from site):			3. Private ✓ 4. other, if	so, describe:					
Street: 777 Dedham Street									
Town: Canton		State: MA	Zip: 02021	County: Norfolk					
c) Legal name of operator :		Operator tele	ephone no: 781-246-8897						
Environmental Complian	ce Services, Inc	Operator fax	no.: 781-246-8950	Operator email: KHurstak@ecsconsult.com					
Operator contact name and title: James Smi	th Grade I-	4 Waste	Water Operator	,					
Address of operator (if different from owner):		Street: 607	North Avenue, Suit	e 11					
Town: Wakefield		State: MA	Zip: 01880	County: Middlese	эх				
d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted 2. Has a prior NPDES application (Form 1 & 2C) ev 3. Is the discharge a "new discharge" as defined by 40 4. For sites in Massachusetts, is the discharge covere	er been filed for to O CFR 122.2? Y	the discharge? Yes_\(\frac{\lambda}{\) No	Yes No \checkmark , if "yes," date a		<u></u>				

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes No_✓_ If "yes," please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y N ✓, if Y, number: 2. phase I or II construction storm water general permit? Y N ✓, if Y, number: 3. individual NPDES permit? Y N ✓, if Y, number: 4. any other water quality related permit? Y N ✓, if Y, number:					
2. Discharge information. Please provide information about the discharge, (attach	ning additional sheets as needed) including:					
a) Describe the discharge activities for which the owner/applicant is seeking coverage						
Construction Dewatering Discharge	е					
following discharge Average flow 0.05 Is maximum flow a different points: For average flow, include the units and appropria	esign value? Y \(\subseteq \) N ate notation if this value is a design value or estimate if not available. The is the anticipated average flow rate.					
3) Latitude and longitude of each discharge within 100 feet: pt.1:long. 71*07'47" lat. 42*20 pt.4:long. lat. ; pt.5: long. lat. ; pt.6:long. lat.						
	ge intermittent / or seasonal ? oing Yes / No ?					
c) Expected dates of discharge (mm/dd/yy): start 02/21/08 end 08/31/08						
d) Please attach a line drawing or flow schematic showing water flow through the faci 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units,	•					

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for all of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is believed present or believed absent in the potential

discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample	Analytical Method	Minimum Level (ML) of	Maximum daily	value	Avg. daily value	
			(1 min- imum)	(e.g., grab)	Used (method #)	Test Method	concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		✓	1	grab	SM2543D	4.00	31,000	8.461309	31,000	4.2306545
2. Total Residual Chlorine		✓	1	grab	HACH 8167	162	170	0.0464006	170	0.0232003
3. Total Petroleum Hydrocarbons		✓	1	grab	8100M	235	1,270	0.3466406	1,270	0.1733203
4. Cyanide	✓		1	grab	SM4500	19.7				
5. Benzene		✓	1	grab	8260B	5	77.8	0.021235	77.8	0.0106175
6. Toluene	✓		1	grab	8260B	5				
7. Ethylbenzene		✓	1	grab	8260B	5	14.4	0.0039302	14.4	0.0019651
8. (m,p,o) Xylenes		✓	1	grab	8260B	5	98.1	0.0267758	98.1	0.0133879
9. Total BTEX ⁴		✓	1	grab	8260B	5	190.3	0.0519414	190.3	0.0259707

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g.,	Analytical Method	Minimum Level (ML) of	Maximum daily	value	Avg. daily value	
			(1 min- imum)	grab)	Used (method #)	Test Method	concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide ⁵ (1,2- Dibromo-methane)	✓		1	grab	8260B	2				
11. Methyl-tert-Butyl Ether (MtBE)	✓		1	grab	8260B	5				
12. tert-Butyl Alcohol (TBA)			1	grab	8260B					
13. tert-Amyl Methyl Ether (TAME)			1	grab	8260B					
14. Naphthalene		✓	1	grab	8270C	1.01	1.53	0.000417	1.53	0.0002085
15. Carbon Tetra- chloride	√		1	grab	8260B	2				
16. 1,4 Dichlorobenzene	✓		1	grab	8260B	5				
17. 1,2 Dichlorobenzene	✓		1	grab	8260B	5				
18. 1,3 Dichlorobenzene	✓		1	grab	8260B	5				
19. 1,1 Dichloroethane	✓		1	grab	8260B	5				
20. 1,2 Dichloroethane	✓		1	grab	8260B	2				
21. 1,1 Dichloroethylene	✓		1	grab	8260B	5				
22. cis-1,2 Dichloro- ethylene	✓		1	grab	8260B	5				
23. Dichloromethane (Methylene Chloride)	✓		1	grab	8260B	5				
24. Tetrachloroethylene	✓		1	grab	8260B	5				

 $^{^5\}mathrm{EDB}$ is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g.,	Analytical Method Used	Minimum Level (ML) of Test	Maximum daily	value	Avg. daily Value	
			(1 min- imum)	grab)	(method #)	Method	concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		1	grab	8260B	5				
26. 1,1,2 Trichloroethane	✓		1	grab	8260B	5				
27. Trichloroethylene	✓		1	grab	8260B	5				
28. Vinyl Chloride	✓		1	grab	8260B	2				
29. Acetone	✓		1	grab	8260B	5				
30. 1,4 Dioxane										
31. Total Phenols	✓		1	grab	8270C	1.01				
32. Pentachlorophenol	✓		1	grab	8270C	1.01				
33. Total Phthalates ⁶ (Phthalate esthers)	√		1	grab	8270C	1.01				
34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	1		1	grab	8270C	1.01				
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab	8270C					
a. Benzo(a) Anthracene	√		1	grab	8270C	1.01				
b. Benzo(a) Pyrene	✓		1	grab	8270C	1.01				
c. Benzo(b)Fluoranthene	✓		1	grab	8270C	0.505				
d. Benzo(k) Fluoranthene	✓		1	grab	8270C	0.505				
e. Chrysene	✓		1	grab	8270C	1.01				

⁶The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g.,	Analytical Method Used	Minimum Level (ML) of	Maximum daily v	alue	Average daily v	alue
			(1 min- imum)	grab)	(method #)	Test Method	concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	√		1	grab	8270C	0.101				
g. Indeno(1,2,3-cd) Pyrene	√		1	grab	8270C	0.101				
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		√	1	grab	8270C					
h. Acenaphthene	✓		1	grab	8270C	1.01				
i. Acenaphthylene	✓		1	grab	8270C	1.01				
j. Anthracene	✓		1	grab	8270C	1.01				
k. Benzo(ghi) Perylene	√		1	grab	8270C	1.01				
l. Fluoranthene	√		1	grab	8270C	1.01				
m. Fluorene	\checkmark		1	grab	8270C	1.01				
n. Naphthalene-		✓	1	grab	8270C	1.01	1.53	0.000417	1.53	0.0002085
o. Phenanthrene	✓		1	grab	8270C	1.01				
p. Pyrene	√		1	grab	8270C	1.01				
37. Total Polychlorinated Biphenyls (PCBs)	√		1	grab	8082	0.306				
38. Antimony	✓		1	grab	E200.9	1				
39. Arsenic	✓		1	grab	E200.9	1				
40. Cadmium	√		1	grab	E200.9	1				
41. Chromium III	√		1	grab	200.7	60				
42. Chromium VI	✓		1	grab	3500	50				

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g.,	Analytical Method	Minimum Level (ML) of	Maximum daily	value	Avg. daily value		
			(1 min- imum)	grab)	Used (method #)	Test Method	concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)	
43. Copper	✓		1	grab	6010B	40					
44. Lead		√	1	grab	200.9	1	1.88	0.0005124	1.88	0.0002562	
45. Mercury	✓		1	grab	245.1	0.2					
46. Nickel		√	1	grab	6010B	4	4	0.0010916	4	0.0005458	
47. Selenium	✓		1	grab	200.9	1					
48. Silver	✓		1	grab	200.7	2					
49. Zinc	√		1	grab	6010B	100					
50. Iron			1	grab							
Other (describe):											

c) For discharges where **metals** are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y N	If yes, which metals?
Step 2: For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: DF:	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y If "Yes," list which metals:

4. Treatment system informat	t ion. Please des	cribe the treatmer	nt syste	em using separa	ite sheets as neces	sary	, including:				
a) A description of the treatme	ent system, incl	iding a schematic	of the	proposed or ex	isting treatment s	ystei	m:				
b) Identify each applicable	Frac. tank 🗸	Air stripper		Oil/water sep	arator		Equalization tanks		Bag filter 🗸		GAC filter √
treatment unit (check all that apply):	Chlorination	Dechlorinatio	n	Other (please	describe):						
c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate (s) (gallons per minute) of the treatment system: Average flow rate of discharge 25 Maximum flow rate of treatment system 50 Design flow rate of treatment system 50											
d) A description of chemical a	additives being	ised or planned to	be use	ed (attach MSD	S sheets): Nor	ie					
5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:											
a) Identify the discharge pathy	way:	Direct	With	in facility	Storm drain		River/brook	Wetlands		Oth	er (describe):
b) Provide a narrative descrip Discharge to a stor								. Cha	arles Rive	r	
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.											
d) Provide the state water quality classification of the receiving water B											
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 14.3 cfs Please attach any calculation sheets used to support stream flow and dilution calculations.											
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes_\(\frac{\lambda}{\sum}\) No If yes, for which pollutant(s)? Low Dissolved Oxygen Is there a TMDL? Yes No_\(\frac{\lambda}{\sum}\) If yes, for which pollutant(s)?											

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.
a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? YesNo Has any consultation with the federal services been completed? Yes \(\frac{1}{2} \) No or is consultation underway? Yes No What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one): a "no jeopardy" opinion? \(\frac{1}{2} \) or written concurrence on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge? Yes No ✓ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes No ✓
7. Supplemental information. :
Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.
8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
Facility/Site Name: Former Gasoline Station 226 Harvard Ave, Allston, MA Operator signature: Title: I-4 Waste Water Operator
Date: 02/12/08



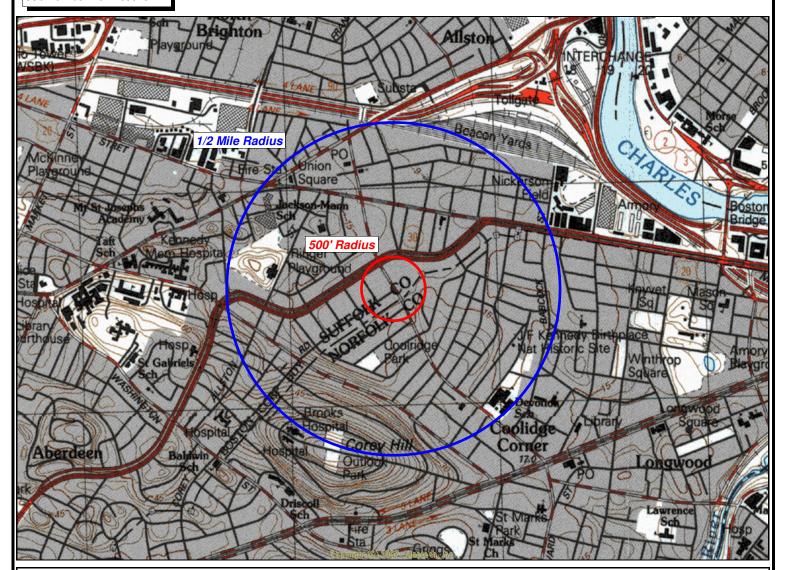
Environmental Compliance Services, Inc. 607 North Avenue, Wakefield, MA 01880 Phone (781)-246-8897 Fax (781)-246-8950 www.ecsconsult.com

SITE LOCUS

Figure:

Cumberland Farms, Inc. 226 Harvard Avenue Allston, MA 02134

Job Number: 91-205546



1 1/2 0 1 Mile

1 inch = 1500 feet

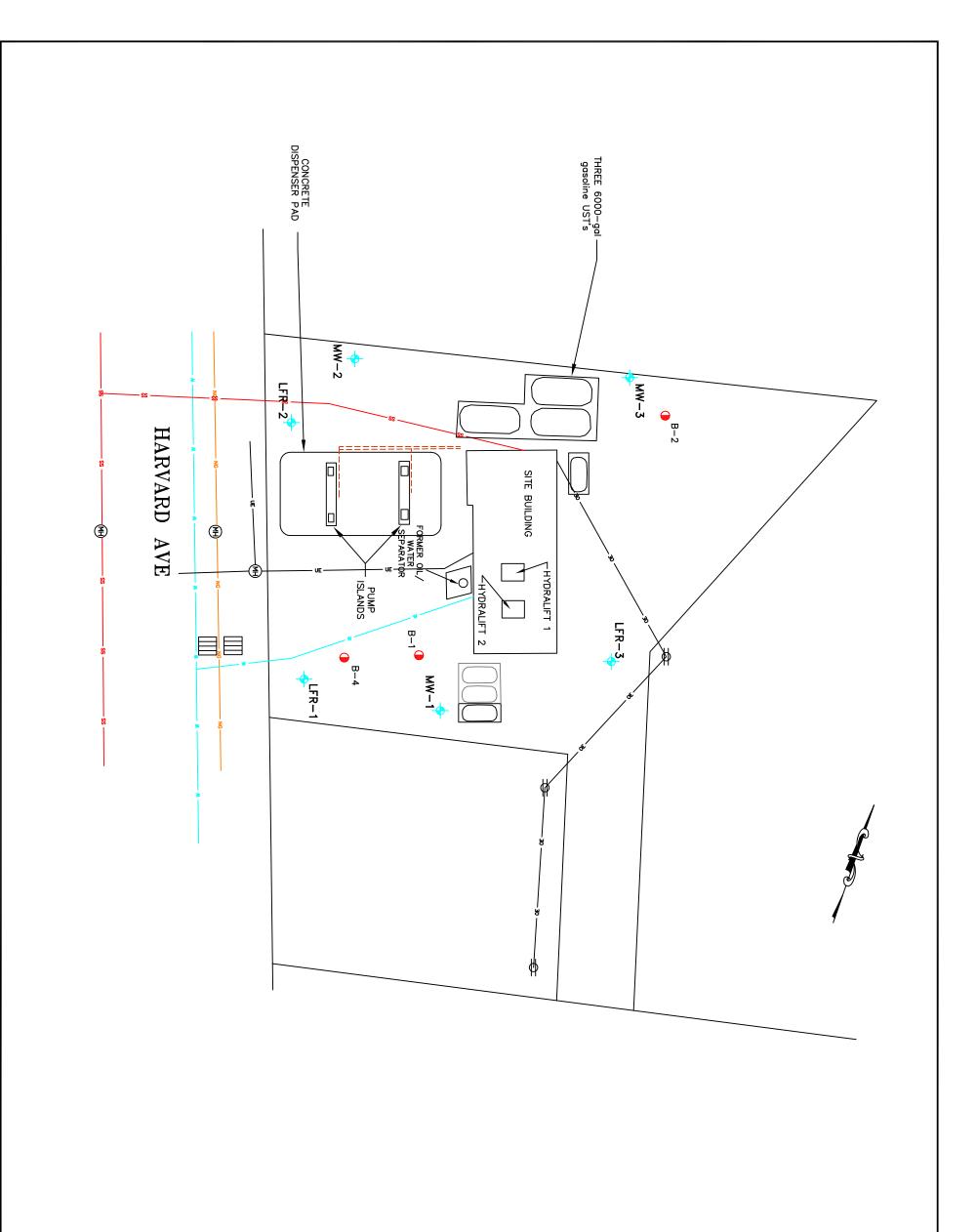
Contour Interval: 3 Meters

North

Base Map: U.S. Geological Survey; Quadrangle Location: Boston South

UTM Coordinates: 19 0324498 East / 46 90527 North

Map Edited: 1987 Map Revised: Generated By: KVZ



Approximate Property Line Sanitary Sewer Line Natural Gas Line Water Line Underground Electric Overhead Electric Line Manhole Catchbasin Utility Pole Monitoring Well MW-1 Well I.D. Soil Boring

Legend

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Horizontal, and vertical locations of wells, and selected site features based on map drafted by Handex of New England, INC. titled "Site Information Map."



Cumberland Farms, Inc.

226 Harvard Avenue Allston, MA

Site Plan
Cumberland Farms, Inc.
GRAPHIC SCALE: 0 15 30
91-2055
DRAWN BY: DESIGNED BY: CHECKED BY: APPROVED BY:

1:30

Jan 2008

91-205546

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StreamStats Data-Collection Station Report

USGS Station Number 01104500

Station Name CHARLES RIVER AT WALTHAM, MA

Click here to link to available data on NWIS-Web for this site.

Descriptive Information

Station Type Gaging Station, continuous record

Regulated? True

Period of Record 1931-present

Remarks Flow affected by Mother Brook diversion, diversions to and from

basin for municipal supplies, and reservoir regulations.

Latitude (degrees

NAD83)

42.3723186

Longitude (degrees

NAD83)

-71.2336667

Hydrologic unit code 01090001 Local Basin 20-Charles County 017-Middlesex

MCD 72600-Waltham city

Directions to station 800 feet downstream from Moody Street

Physical Characteristics

Characteristic Name	Value	Units	Citation Number
Drainage_Area	227	square miles	30

Streamflow Statistics

Statistic Name	Value	Units	Citation Number
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Peak-Flow Statistics			
10_Year_Peak_Flood	2410	cubic feet per second	12
100_Year_Peak_Flood	4200	cubic feet per second	12
25_Year_Peak_Flood	3070	cubic feet per second	12
50_Year_Peak_Flood	3610	cubic feet per second	12
500_Year_Peak_Flood	5780	cubic feet per second	12
Mean_Annual_Flood	502	cubic feet per second	12
Low-Flow Statistics			
7_Day_10_Year_Low_Flow	14.3	cubic feet per second	19
7_Day_2_Year_Low_Flow	34	cubic feet per second	19
Flow-Duration Statistics			
1_Percent_Duration	1380	cubic feet per second	41
10_Percent_Duration	680	cubic feet per second	41
20_Percent_Duration	495	cubic feet per second	41
25_Percent_Duration	430	cubic feet per second	41
30_Percent_Duration	377	cubic feet per second	41
40_Percent_Duration	292	cubic feet per second	41
5_Percent_Duration	880	cubic feet per second	41
50_Percent_Duration	222	cubic feet per second	41
60_Percent_Duration	167	cubic feet per second	41
70_Percent_Duration	118	cubic feet per second	41
75_Percent_Duration	97	cubic feet per second	41
80_Percent_Duration	77	cubic feet per second	41
90_Percent_Duration	44	cubic feet per second	41
95_Percent_Duration	30	cubic feet per second	41
99_Percent_Duration	7.9	cubic feet per second	41
General Flow Statistics			
Average_daily_streamflow	309.739	cubic feet per second	41
Maximum_daily_flow	2940	cubic feet per second	41
Minimum_daily_flow	0.2	cubic feet per second	41
Std_Dev_of_daily_flows	296.365	cubic feet per second	41
Base_Flow_Statistics			
Average_BFI_value	0.632	dimensionless	42
Number_of_years_to_compute_BFI	72	years	42
Std_dev_of_annual_BFI_values	0.087	dimensionless	42

Citations

Citation Citation Name Number

- Murphy, P.J., 2001, Evaluation of mixed-population flood-frequency analysis: American Society of Civil Engineers, Journal of Hydrologic Engineering, v. 6, no. 1, p. 62-70
- Wandle, S.W., Jr., 1984, Gazetteer of Hydrologic Characteristics of Streams in Massachusetts--Coastal River Basins of the North Shore and Massachusetts Bay: U.S. Geological Survey Water-Resources Investigations Report 84-4281.
- 30 Imported from NWIS file
- Wolock, D.M., 2003, Flow characteristics at U.S. Geological Survey streamgages in the conterminous United States: U.S. Geological Survey Open-File Report 03-146, digital data set, available on World Wide Web at URL http://water.usgs.gov/lookup/getspatial?qsitesdd
- Wolock, D.M., 2003, Base-flow index grid for the conterminous United States: U.S. Geological Survey Open-File Report 03-263, digital data set, available on World Wide Web at URL http://water.usgs.gov/lookup/getspatial?bfi48grd



StreamStats Data-Collection Station Report

USGS Station Number 01104500

Station Name CHARLES RIVER AT WALTHAM, MA

Click here to link to available data on NWIS-Web for this site.

Descriptive Information

Station Type Gaging Station, continuous record

Regulated? True

Period of Record 1931-present

Remarks Flow affected by Mother Brook diversion, diversions to and from

basin for municipal supplies, and reservoir regulations.

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MCD 72600-Waltham city

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75_Percent_Duration	97	cubic feet per second	41
80_Percent_Duration	77	cubic feet per second	41
90_Percent_Duration	44	cubic feet per second	41
95_Percent_Duration	30	cubic feet per second	41
99_Percent_Duration	7.9	cubic feet per second	41
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Citations

Citation Citation Name Number

- Murphy, P.J., 2001, Evaluation of mixed-population flood-frequency analysis: American Society of Civil Engineers, Journal of Hydrologic Engineering, v. 6, no. 1, p. 62-70
- Wandle, S.W., Jr., 1984, Gazetteer of Hydrologic Characteristics of Streams in Massachusetts--Coastal River Basins of the North Shore and Massachusetts Bay: U.S. Geological Survey Water-Resources Investigations Report 84-4281.
- 30 Imported from NWIS file
- Wolock, D.M., 2003, Flow characteristics at U.S. Geological Survey streamgages in the conterminous United States: U.S. Geological Survey Open-File Report 03-146, digital data set, available on World Wide Web at URL http://water.usgs.gov/lookup/getspatial?qsitesdd
- Wolock, D.M., 2003, Base-flow index grid for the conterminous United States: U.S. Geological Survey Open-File Report 03-263, digital data set, available on World Wide Web at URL http://water.usgs.gov/lookup/getspatial?bfi48grd

Friday, February 01, 2008

Kelly Hurstak ECS 607 North Ave Wakefield, MA 01880 GeoLabs, Inc. 45 Johnson Lane Braintree MA 02184 Tele: 781 848 7844 Fax: 781 848 7811

TEL: (781) 246-8897 FAX: (781) 246-8950

Project:

91-205546

Location:

Order No.: 0801281

Dear Kelly Hurstak:

GeoLabs, Inc. received 5 sample(s) on 1/28/2008 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

Analytical methods and results meet requirements of 310CMR 40.1056(J) as per MADEP Compendium of Analytical Methods (CAM).

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen

Laboratory Director

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)

Date: 01-Feb-08

CLIENT:

ECS

Project:

91-205546

Lab Order:

0801281

CASE NARRATIVE

MADEP MCP Response Action Analytical Report Certification Form

Laboratory Name: GeoLabs, Inc.

Project # 91-205546

Project Location:

MADEP RTN #:

This form provides certification for the following data set: 0801281 (001-005)

Sample Matrix: Groundwater

MCP SW-846 Methods Used: VPH, EPH, 8260B, 6010B, 245.1, 8082, 8270C, 8100M

An affirmative answer to questions A, B and C are required for "Presumptive Certainty" status

- A. Were all samples received by the laboratory in a condition consistent with that described on the Chain of custody documentation for the data set?
- B. Were all QA/QC procedures required for the specified method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate standards or guidelines?
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 of the MADEP documents CAM VII A "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. VPH and EPH Methods only: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)

A response to questions E and F are required for "Presumptive Certainty" status

E. Were all QC performance standards and recommendations for the specified methods achieved? NO F. Were results for all analyte-list compounds/elements for the specified method(s) reported? YES

All NO answers need to be addressed in an attached Environmental Laboratory case narrative.

CLIENT:

ECS

Project:

91-205546

Lab Order:

0801281

CASE NARRATIVE

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

The following analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples:

8260 LCS percent recoveries for 1,2,4-Trichlorobenzene, Methyl Tert-Butyl Ether, and Naphthalene are outside the recovery limits.

8270 Method Blank percent recovery for 2,4,6-Tribromophenol is outside the recovery limits.

8270 LCS percent recoveries for 2,4-Dinitrophenol and 2,4,6-Tribromophenol are outside the recovery limits.

Sample 003 EPH Ranges surrogate COD fails due to emulsion in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Position: Lab Director

Printed Name: Jim Chen

Date: February 1, 2008

CLIENT:

ECS

Project:

91-205546

Lab Order:

0801281

CASE NARRATIVE

EPH Methods

Method for Ranges: MADEP EPH 04-1.1 Method for Target Analytes: 8270 GC/MS

Carbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

C11-C22 Aromatic Hydrocarbons exclude concentrations of Target PAH Analytes

CERTIFICATION:

Were all QA/QC procedures REQUIRED by the EPH Method followed? YES Were all performance/acceptance standards achieved? NO (See Case Narrative) Were any significant modifications made to the EPH method? NO

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

Chaper Cham

LAB DIRECTOR

PRINTED NAME: Jim Chen

DATE: February 1, 2008

CLIENT:

ECS

Project:

91-205546

Lab Order:

0801281

CASE NARRATIVE

VPH Methods

Method for Ranges: MADEP VPH 04-1.1

Method for Target Analytes: MADEP VPH 04-1.1

Carbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range. (MTBE, Benzene, Toluene)

C9-C12 Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range (Ethylbenzene, m&p-Xylenes, o-Xylene) AND concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? YES Were all QA/QC performance/acceptance standards achieved? YES Were any significant modifications made to the VPH method, as specified in Sec. 11.3? NO

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge, accurate and complete.

SIGNATURE:

Character Character

POSITION: LAB DIRECTOR

PRINTED NAME: Jim Chen

DATE: February 1, 2008

Reported Date: 01-Feb-08

CLIENT:

ECS

Client Sample ID: NW-1

Lab Order:

0801281

Collection Date: 1/28/2008

Project:

91-205546

Date Received: 1/28/2008

Lab ID:

0801281-001

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual Units	DF	Date Analyzed
EPH RANGES - MADEP EPH					Analyst: RuP
Adjusted C11-C22 Aromatics	172	99.5	μg/L	1	1/30/2008
C09-C18 Aliphatics	ND	99.5	μg/L	• 1	1/30/2008
C19-C36 Aliphatics	ND	99.5	μg/L	1	1/30/2008
Unadjusted C11-C22 Aromatics	211	99.5	μg/L	. 1	1/30/2008
Surr: 1-Chlorooctadecane	74.0	40-140	%REC	1	1/30/2008
Surr: o-Terphenyl	68.0	40-140	%REC	1	1/30/2008
EPH TARGET ANALYTES - MADEP EPH					Analyst: RDO
Naphthalene	30.9	0.995	μg/L	1	1/29/2008 4:30:00 PM
2-Methylnaphthalene	7.92	0.995	μg/L	1	1/29/2008 4:30:00 PM
Acenaphthene	ND	0.995	μg/L	1	1/29/2008 4:30:00 PM
Phenanthrene	ND	0.995	μg/L	1	1/29/2008 4:30:00 PM
Acenaphthylene	ND	0.995	μg/L	1	1/29/2008 4:30:00 PM
Fluorene	ND	0.995	μg/L	1	1/29/2008 4:30:00 PM
Anthracene	ND	0.995	μg/L	1	1/29/2008 4:30:00 PM
Fluoranthene	ND	0.995	μg/L	1	1/29/2008 4:30:00 PM
Pyrene	ND	0.995	μg/L	1	1/29/2008 4:30:00 PM
Benzo(a)Anthracene	ND	0.398	μg/L	1	1/29/2008 4:30:00 PM
Chrysene	ND	0.995	μg/L	1	1/29/2008 4:30:00 PM
Benzo(b)Fluoranthene	ND	0.995	µg/L	1	1/29/2008 4:30:00 PM
Benzo(k)Fluoranthene	ND	0.995	μg/L	1	1/29/2008 4:30:00 PM
Benzo(a)Pyrene	ND	0.199	μg/L	1	1/29/2008 4:30:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.398	μg/L	1	1/29/2008 4:30:00 PM
Dibenz(a,h)Anthracene	ND	0.398	μg/L	1	1/29/2008 4:30:00 PM
Benzo(g,h,i)Perylene	ND	0.995	μg/L	1	1/29/2008 4:30:00 PM
Total PAH Target Concentration	38.9	.0	μg/L	1	1/29/2008 4:30:00 PM
Surr: 2,2'-Difluorobiphenyl	54.5	40-140	%REC	1	1/29/2008 4:30:00 PM
Surr: 2-Fluorobiphenyl	62.1	40-140	%REC	1	1/29/2008 4:30:00 PM
VPH - MADEP VPH					Analyst: MR
C9-C10 Aromatic Hydrocarbons	1290	75.0	μg/L	1	1/29/2008
Unadjusted C5-C8 Aliphatic Hydrocarbons	2910	75.0	µg/L	1	1/29/2008
Unadjusted C9-C12 Aliphatic Hydrocarbons	3360	75.0	μg/L	1	1/29/2008
Methyl Tert-Butyl Ether	ND	5.00	μg/L	1	1/29/2008
Benzene	ND	5.00	μg/L	1	1/29/2008
Toluene	22.5	5.00	μg/L	1	1/29/2008
Ethylbenzene	338	5.00	μg/L	1	1/29/2008
m,p-Xylene	999	5.00	μg/L	1	1/29/2008

Qualifiers:

BRL Below Reporting Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order: 0801281

Project:

91-205546

Lab ID:

0801281-001

Client Sample ID: NW-1

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual Uni	ts DF	Date Analyzed
VPH - MADEP VPH		*/-			Analyst: MR
o-Xylene	19.8	5.00	μg/L	. 1	1/29/2008
Naphthalene	142	20.0	µg/L	. 1	1/29/2008
Adjusted C5-C8 Aliphatic Hydrocarbons	2890	75.0	μg/L	. 1	1/29/2008
Adjusted C9-C12 Aliphatic Hydrocarbons	713	75.0	μg/L	. 1	1/29/2008
Surr: 2,5-Dibromotoluene FID	125	70-130	%RE	EC 1	1/29/2008
Surr: 2,5-Dibromotoluene PID	97.0	70-130	%RI	EC 1	1/29/2008

- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Spike Recovery outside recovery limits

- BRL Below Reporting Limit
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Reported Date: 01-Feb-08

CLIENT:

ECS

Client Sample ID: NW-2

Lab Order:

0801281

Collection Date: 1/28/2008

Project:

91-205546

Date Received: 1/28/2008

Lab ID:

0801281-002

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual Units	DF	Date Analyzed
EPH RANGES - MADEP EPH					Analyst: RuP
Adjusted C11-C22 Aromatics	ND	100	μg/L	1	1/30/2008
C09-C18 Aliphatics	ND	100	μg/L	. 1	1/30/2008
C19-C36 Aliphatics	ND	100	μg/L	1	1/30/2008
Unadjusted C11-C22 Aromatics	ND	100	μg/L	1	1/30/2008
Surr: 1-Chlorooctadecane	70.0	40-140	%REC	1	1/30/2008
Surr: o-Terphenyl	71.0	40-140	%REC	1	1/30/2008
EPH TARGET ANALYTES - MADEP E	PH				Analyst: RDO
Naphthalene	14.7	1.00	μg/L	1	1/29/2008 5:43:00 PM
2-Methylnaphthalene	3.83	1.00	μg/L	1	1/29/2008 5:43:00 PM
Acenaphthene	ND	1.00	μg/L	1	1/29/2008 5:43:00 PM
Phenanthrene	ND	1.00	μg/L	1	1/29/2008 5:43:00 PM
Acenaphthylene	ND	1.00	μg/L	1	1/29/2008 5:43:00 PM
Fluorene	ND	1.00	μg/L	1	1/29/2008 5:43:00 PM
Anthracene	ND	1.00	μg/L	1	1/29/2008 5:43:00 PM
Fluoranthene	ND	1.00	µg/L	1	1/29/2008 5:43:00 PM
Pyrene	ND	1.00	μg/L	1	1/29/2008 5:43:00 PM
Benzo(a)Anthracene	ND	0.400	μg/L	1	1/29/2008 5:43:00 PM
Chrysene	ND	1.00	μg/L	1	1/29/2008 5:43:00 PM
Benzo(b)Fluoranthene	ND	1.00	μg/L	1	1/29/2008 5:43:00 PM
Benzo(k)Fluoranthene	ND	1.00	μg/L	1	1/29/2008 5:43:00 PM
Benzo(a)Pyrene	ND	0.200	μg/L	1	1/29/2008 5:43:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.400	μg/L	1	1/29/2008 5:43:00 PM
Dibenz(a,h)Anthracene	ND	0.400	μg/L	1	1/29/2008 5:43:00 PM
Benzo(g,h,i)Perylene	ND	1.00	μg/L	1	1/29/2008 5:43:00 PM
Total PAH Target Concentration	18.5	0	μg/L	1	1/29/2008 5:43:00 PM
Surr: 2,2'-Difluorobiphenyl	55.1	40-140	%REC	1	1/29/2008 5:43:00 PM
Surr: 2-Fluorobiphenyl	55.4	40-140	%REC	1	1/29/2008 5:43:00 PM
VPH - MADEP VPH					Analyst: MR
C9-C10 Aromatic Hydrocarbons	531	75.0	μg/L	1	1/29/2008
Unadjusted C5-C8 Aliphatic Hydrocarbons	1720	75.0	μg/L	1	1/29/2008
Unadjusted C9-C12 Aliphatic Hydrocarbons	1160	75.0	μg/L	. 1	1/29/2008
Methyl Tert-Butyl Ether	ND	5.00	μg/L	1	1/29/2008
Benzene	ND	5.00	μg/L	1	1/29/2008
Toluene	19.9	5.00	μg/L	1	1/29/2008
Ethylbenzene	147	5.00	μg/L	1	1/29/2008
m,p-Xylene	342	5.00	μg/L	1	1/29/2008

Qualifiers:

BRL Below Reporting Limit

Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order:

0801281

Project: Lab ID:

91-205546

0801281-002

Client Sample ID: NW-2

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual Units	DF	Date Analyzed
VPH - MADEP VPH					Analyst: MR
o-Xylene	113	5.00	μg/L	1	1/29/2008
Naphthalene	36.8	20.0	µg/L	1	1/29/2008
Adjusted C5-C8 Aliphatic Hydrocarbons	1700	75.0	µg/L	1.	1/29/2008
Adjusted C9-C12 Aliphatic Hydrocarbons	ND	75.0	μg/L	1	1/29/2008
Surr: 2,5-Dibromotoluene FID	99.3	70-130	%REC	1	1/29/2008
Surr: 2,5-Dibromotoluene PID	77.6	70-130	%REC	: 1	1/29/2008

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Spike Recovery outside recovery limits

- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Reported Date: 01-Feb-08

CLIENT:

ECS

Client Sample ID: NW-3

Lab Order:

0801281

Collection Date: 1/28/2008

Project:

91-205546

Date Received: 1/28/2008

Lab ID:

0801281-003

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES - MADEP EPH				-		Analyst: RuP
Adjusted C11-C22 Aromatics	ND	100		μg/L	1	1/30/2008
C09-C18 Aliphatics	140	100		μg/L	1	1/30/2008
C19-C36 Aliphatics	111	100		μg/L	1	1/30/2008
Unadjusted C11-C22 Aromatics	229	100		μg/L	1	1/30/2008
Surr: 1-Chlorooctadecane	38.0	40-140	S	%REC	1	1/30/2008
Surr: o-Terphenyl	57.0	40-140		%REC	1	1/30/2008
NOTES:						

* Low surrogate recovery caused by emulsions during extraction procedure. The method is in control as indicated by the laboratory con sample (LCS).

EPH TARGET ANALYTES - MADEP EP	н				Analyst: RDO
Naphthalene	54.2	1.00	μg/L	1	1/31/2008 4:33:00 PM
2-Methylnaphthalene	15.7	1.00	μg/L	1	1/31/2008 4:33:00 PM
Acenaphthene	ND	1.00	μg/L	1	1/31/2008 4:33:00 PM
Phenanthrene	ND	1.00	μg/L	1	1/31/2008 4:33:00 PM
Acenaphthylene	ND	1.00	μg/L	1	1/31/2008 4:33:00 PM
Fluorene	ND	1.00	μg/L	1	1/31/2008 4:33:00 PM
Anthracene	ND	1.00	μg/L	1	1/31/2008 4:33:00 PM
Fluoranthene	ND	1.00	μg/L	1	1/31/2008 4:33:00 PM
Pyrene	ND	1.00	μg/L	1	1/31/2008 4:33:00 PM
Benzo(a)Anthracene	ND	0.400	μg/L	1	1/31/2008 4:33:00 PM
Chrysene	ND	1.00	μg/L	1 1	1/31/2008 4:33:00 PM
Benzo(b)Fluoranthene	ND	1.00	μg/L		1/31/2008 4:33:00 PM
Benzo(k)Fluoranthene	ND	1.00	μg/L	1	1/31/2008 4:33:00 PM
Benzo(a)Pyrene	ND	0.200	μg/L	1	1/31/2008 4:33:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.400	μg/L	1	1/31/2008 4:33:00 PM
Dibenz(a,h)Anthracene	ND	0.400	μg/L	1	1/31/2008 4:33:00 PM
Benzo(g,h,i)Perylene	ND	1.00	μg/L	1	1/31/2008 4:33:00 PM
Total PAH Target Concentration	69.9	0	μg/L	1	1/31/2008 4:33:00 PM
Surr: 2,2'-Difluorobiphenyl	69.3	40-140	%REC	1	1/31/2008 4:33:00 PM
Surr: 2-Fluorobiphenyl	78.8	40-140	%REC	1	1/31/2008 4:33:00 PM
VPH - MADEP VPH					Analyst: MR
C9-C10 Aromatic Hydrocarbons	244	75.0	μg/L	1	1/29/2008
Unadjusted C5-C8 Aliphatic Hydrocarbons	ND	75.0	μg/L	1	1/29/2008
Unadjusted C9-C12 Aliphatic Hydrocarbons	421	75.0	μg/L	1	1/29/2008
Methyl Tert-Butyl Ether	ND	5.00	μg/L	1	1/29/2008
Benzene	ND	5.00	µg/L	1	1/29/2008
Toluene	25.9	5.00	μg/L	1	1/29/2008

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside recovery limits

- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order:

0801281

Project:

91-205546

Lab ID:

0801281-003

Client Sample ID: NW-3

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VPH - MADEP VPH						Analyst: MR
Ethylbenzene	33.5	5.00		μg/L	1	1/29/2008
m,p-Xylene	84.8	5.00		μg/L	1	1/29/2008
o-Xylene	54.8	5.00		μg/L	1	1/29/2008
Naphthalene	44.5	20.0		μg/L	.1	1/29/2008
Adjusted C5-C8 Aliphatic Hydrocarbons	ND	75.0		μg/L	1	1/29/2008
Adjusted C9-C12 Aliphatic Hydrocarbons	ND	75.0		µg/L	1	1/29/2008
Surr: 2,5-Dibromotoluene FID	124	70-130		%REC	1	1/29/2008
Surr: 2,5-Dibromotoluene PID	102	70-130		%REC	1	1/29/2008

- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- Spike Recovery outside recovery limits

- BRL Below Reporting Limit
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order:

0801281

Project:

91-205546

Lab ID:

0801281-004

Client Sample ID: LFR-3

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual Units	DF	Date Analyzed
EPH RANGES - MADEP EPH					Analyst: RuP
Adjusted C11-C22 Aromatics	ND	99.5	μg/L	1	1/30/2008
C09-C18 Aliphatics	ND	99.5	μg/L	1	1/30/2008
C19-C36 Aliphatics	ND	99.5	μg/L	1	1/30/2008
Unadjusted C11-C22 Aromatics	ND	99.5	μg/L	1	1/30/2008
Surr: 1-Chlorooctadecane	52.0	40-140	%REC	1	1/30/2008
Surr: o-Terphenyl	64.0	40-140	%REC	1	1/30/2008
EPH TARGET ANALYTES - MADEP EPH					Analyst: RDO
Naphthalene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
2-Methylnaphthalene	ND	0.995	μg/L	. 1	1/29/2008 6:21:00 PM
Acenaphthene	· ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Phenanthrene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Acenaphthylene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Fluorene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Anthracene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Fluoranthene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Pyrene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Benzo(a)Anthracene	ND	0.398	μg/L	1	1/29/2008 6:21:00 PM
Chrysene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Benzo(b)Fluoranthene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Benzo(k)Fluoranthene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Benzo(a)Pyrene	ND	0.199	μg/L	1	1/29/2008 6:21:00 PM
indeno(1,2,3-cd)Pyrene	ND	0.398	μg/L	1	1/29/2008 6:21:00 PM
Dibenz(a,h)Anthracene	ND	0.398	μg/L	1	1/29/2008 6:21:00 PM
Benzo(g,h,i)Perylene	ND	0.995	μg/L	1	1/29/2008 6:21:00 PM
Total PAH Target Concentration	ND	0	μg/L	1	1/29/2008 6:21:00 PM
Surr: 2,2'-Difluorobiphenyl	71.1	40-140	%REC	1	1/29/2008 6:21:00 PM
Surr: 2-Fluorobiphenyl	64.8	40-140	%REC	1	1/29/2008 6:21:00 PM
VPH - MADEP VPH					Analyst: MR
C9-C10 Aromatic Hydrocarbons	ND	75.0	μg/L	1	1/29/2008
Unadjusted C5-C8 Aliphatic Hydrocarbons	ND	75.0	μg/L	1	1/29/2008
Unadjusted C9-C12 Aliphatic Hydrocarbons	ND	75.0	μg/L	1	1/29/2008
Methyl Tert-Butyl Ether	ND	5.00	μg/L	1	1/29/2008
Benzene	ND	5.00	μg/L	1	1/29/2008
Toluene	ND	5.00	µg/L	1	1/29/2008
Ethylbenzene	5.31	5.00	µg/L	1	1/29/2008
m,p-Xylene	7.34	5.00	μg/L	1	1/29/2008

Qualifiers:

BRL Below Reporting Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside recovery limits

Reported Date: 01-Feb-08

CLIENT:

ECS

Client Sample ID: LFR-3

Lab Order:

0801281

Collection Date: 1/28/2008

Project:

91-205546

Date Received: 1/28/2008

Lab ID:

0801281-004

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VPH - MADEP VPH						Analyst: MR
o-Xylene	ND	5.00		μg/L	1	1/29/2008
Naphthalene	ND	20.0		μg/L	1	1/29/2008
Adjusted C5-C8 Aliphatic Hydrocarbons	ND	75.0		μg/L	1	1/29/2008
Adjusted C9-C12 Aliphatic Hydrocarbons	ND	75.0		μg/L	1	1/29/2008
Surr: 2,5-Dibromotoluene FID	94.8	70-130		%REC	1	1/29/2008
Surr: 2,5-Dibromotoluene PID	82.8	70-130		%REC	1	1/29/2008

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside recovery limits

- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order:

0801281

Project:

91-205546

Lab ID:

0801281-005

Client Sample ID: LFR-1

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual Unit	s DF	Date Analyzed
TOTAL SUSPENDED SOLIDS - SM254	0-D		4		Analyst: JLN
Total Suspended Solids	31.0	4.00	mg/L	1	1/28/2008
EPH RANGES - MADEP EPH					Analyst: RuF
Adjusted C11-C22 Aromatics	ND	123	μg/L	1	1/30/2008
C09-C18 Aliphatics	ND	123	μg/L	1	1/30/2008
C19-C36 Aliphatics	ND	123	μg/L	1	1/30/2008
Unadjusted C11-C22 Aromatics	ND	123	μg/L	1	1/30/2008
Surr: 1-Chlorooctadecane	55.0	40-140	%RE	C 1	1/30/2008
Surr: o-Terphenyl	80.0	40-140	%RE	C 1	1/30/2008
TOTAL PETROLEUM HYDROCARBON	NS - 8100M				Analyst: Ru F
Total Petroleum Hydrocarbons	1.27	0.235	mg/L	1	1/29/2008
Surr: o-Terphenyl	59.0	40-140	%RE	C 1	1/29/2008
POLYCHLORINATED BIPHENYLS - SI	N8082				Analyst: JG
Aroclor 1016/1242	ND	0.306	μg/L	1	1/29/2008
Aroclor 1221	ND	0.306	μg/L	1	1/29/2008
Aroclor 1232	ND	0.306	μg/L	1	1/29/2008
Aroclor 1248	ND	0.306	μg/L	1	1/29/2008
Aroclor 1254	ND	0.306	μg/L	1	1/29/2008
Aroclor 1260	ND	0.306	μg/L	1	1/29/2008
Aroclor 1262	ND	0.306	μg/L	1	1/29/2008
Aroclor 1268	ND	0.306	μg/L	1	1/29/2008
Surr: Decachlorobiphenyl Sig 1	82.0	30-150	%RE	C 1	1/29/2008
Surr: Decachlorobiphenyl Sig 2	96.0	30-150	%RE	0 1	1/29/2008
Surr: Tetrachloro-m-Xylene Sig 1	82.0	30-150	%RE	0 1	1/29/2008
Surr: Tetrachloro-m-Xylene Sig 2	80.0	30-150	%RE	C 1 -	1/29/2008
OTAL METALS BY GFAA - E200.9					Analyst: QS
Antimony	ND	0.00100	mg/L	1	2/1/2008
Arsenic	ND	0.00100	mg/L	1	1/29/2008
Cadmium	ND	0.00100	mg/L	1	1/31/2008
Lead	0.00188	0.00100	mg/L	1	1/29/2008
Selenium	ND	0.00100	mg/L	1	2/1/2008
Thallium	ND	0.00100	mg/L	1	1/31/2008
FOTAL METALS BY ICP - SW6010B					Analyst: QS
Beryllium	ND	0.00400	mg/L	1	1/30/2008

Qualifiers:

- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Spike Recovery outside recovery limits

- BRL Below Reporting Limit
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order:

0801281

Project:

91-205546

Lab ID:

0801281-005

Client Sample ID: LFR-1

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual Un	its DF	Date Analyzed
TOTAL MÈTALS BY ICP - SW6010B			*		Analyst: QS
Chromium	ND	0.0800	mg/	/L 1	1/30/2008
Copper	ND	0.0400	mg/	/L 1	1/30/2008
Nickel	0.00400	0.00400	mg/	/L 1	1/30/2008
Zinc	ND	0.100	mg/	/L 1	1/30/2008
TOTAL SILVER - E200.7					Analyst: QS
Silver	ND	0.00200	mg/	/L 1	1/30/2008
TOTAL MERCURY - E245.1					Analyst: FC
Mercury	ND	0.0002	mg/	/L 1	1/29/2008
SEMIVOLATILE ORGANICS - SW8270C					Analyst: RDO
1,2,4-Trichlorobenzene	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
1,2-Dichlorobenzene	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
1,2-Dinitrobenzene	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
1,3-Dichlorobenzene	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
1,3-Dinitrobenzene	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
1,4-Dichlorobenzene	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
1,4-Dinitrobenzene	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
2,3,4,6-Tetrachlorophenol	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
2,4,5-Trichlorophenol	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
2,4,6-Trichlorophenol	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
2,4-Dichlorophenol	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
2,4-Dimethylphenol	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
2,4-Dinitrophenol	ND	5.05	µg/l	L 1	1/29/2008 1:24:00 PM
2,4-Dinitrotoluene	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
2,6-Dinitrotoluene	ND	1.01	µg/l	L 1	1/29/2008 1:24:00 PM
2-Chloronaphthalene	ND	1.01	µg/l	L 1	1/29/2008 1:24:00 PM
2-Chlorophenol	ND	1.01	μg/l	L 1	1/29/2008 1:24:00 PM
2-Methylnaphthalene	1.31	1.01	μg/l		1/29/2008 1:24:00 PM
2-Methylphenol	ND	1.01	μg/l		1/29/2008 1:24:00 PM
2-Nitroaniline	ND	1.01	μg/l		1/29/2008 1:24:00 PM
2-Nitrophenol	ND	1.01	μg/l		1/29/2008 1:24:00 PM
3,3'-Dichlorobenzidine	ND	1.01	μg/l		1/29/2008 1:24:00 PM
3-Methylphenol/4-Methylphenol	ND	1.01	μg/l		1/29/2008 1:24:00 PM
3-Nitroaniline	ND	1.01	μg/l		1/29/2008 1:24:00 PM
4,6-Dinitro-2-Methylphenol	ND	5.05	μg/l		1/29/2008 1:24:00 PM
4-Bromophenyl Phenyl Ether	ND	1.01	μg/l		1/29/2008 1:24:00 PM
4-Chloro-3-Methylphenol	ND	1.01	µg/l		1/29/2008 1:24:00 PM

Qualifiers:

- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- Spike Recovery outside recovery limits

- BRL Below Reporting Limit
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order:

0801281

Project:

91-205546

Lab ID:

0801281-005

Client Sample ID: LFR-1

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual U	Inits	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270C						Analyst: RDO
4-Chloroaniline	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
4-Chlorophenyl Phenyl Ether	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
4-Nitroaniline	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
4-Nitrophenol	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Acenaphthene	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Acenaphthylene	ND	1.01	·μ	g/L	1	1/29/2008 1:24:00 PM
Acetophenone	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Aniline	ND	5.05	μ	g/L	1	1/29/2008 1:24:00 PM
Anthracene	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Azobenzene	ND	5.05	μ	g/L	1	1/29/2008 1:24:00 PM
Benz(a)Anthracene	ND	0.101	μ	g/L	1	1/29/2008 1:24:00 PM
Benzidine	ND	5.05	μ	g/L	1	1/29/2008 1:24:00 PM
Benzo(a)Pyrene	ND	0.101	μ	g/L	1	1/29/2008 1:24:00 PM
Benzo(b)Fluoranthene	ND	0.505		g/L	1	1/29/2008 1:24:00 PM
Benzo(g,h,i)Perylene	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Benzo(k)Fluoranthene	ND	0.505	μ.	g/L	1	1/29/2008 1:24:00 PM
Benzyl Alcohol	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Bis(2-Chloroethoxy)Methane	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Bis(2-Chloroethyl)Ether	ND	1.01	μ	g/L	[*] 1	1/29/2008 1:24:00 PM
Bis(2-Chloroisopropyl)Ether	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Butyl Benzyl Phthalate	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Carbazole	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Chrysene	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Dibenz(a,h)Anthracene	ND	0.101	μ	g/L	1	1/29/2008 1:24:00 PM
Dibenzofuran	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Diethyl Phthalate	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Dimethyl Phthalate	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Di-n-Butyl Phthalate	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Di-n-Octyl Phthalate	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Fluoranthene	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Fluorene	ND	1.01	μ	g/L	1	1/29/2008 1:24:00 PM
Hexachlorobenzene	ND	0.101	μ	g/L	1	1/29/2008 1:24:00 PM
Hexachlorobutadiene	ND	0.101	μ	g/L	1	1/29/2008 1:24:00 PM
Hexachlorocyclopentadiene	ND	5.05	-	g/L	1	1/29/2008 1:24:00 PM
Hexachloroethane	ND	1.01		g/L	1	1/29/2008 1:24:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.101		g/L	1	1/29/2008 1:24:00 PM
Isophorone	ND	1.01		g/L	1	1/29/2008 1:24:00 PM
Naphthalene	1.53	1.01		g/L	1	1/29/2008 1:24:00 PM
Nitrobenzene	ND	1.01		g/L	1	1/29/2008 1:24:00 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside recovery limits

BRL Below Reporting Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order:

0801281

Project: Lab ID: 91-205546

0801281-005

Client Sample ID: LFR-1

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270)C					Analyst: RDO
N-Nitrosodimethylamine	ND	5.05		μg/L	1	1/29/2008 1:24:00 PM
N-Nitrosodi-n-Propylamine	ND	1.01		μg/L	1	1/29/2008 1:24:00 PM
N-Nitrosodiphenylamine	ND	5.05		µg/L	1	1/29/2008 1:24:00 PM
Pentachlorophenol	ND	1.01		μg/L	1	1/29/2008 1:24:00 PM
Phenanthrene	ND	1.01		μg/L	1	1/29/2008 1:24:00 PM
Phenol	ND	1.01		μg/L	1	1/29/2008 1:24:00 PM
Pyrene	ND	1.01		μg/L	1	1/29/2008 1:24:00 PM
Pyridine	ND	5.05		μg/L	1	1/29/2008 1:24:00 PM
Surr: 2,4,6-Tribromophenol	176	15-110	s	%REC	1	1/29/2008 1:24:00 PM
Surr: 2-Fluorobiphenyl	47.6	30-130		%REC	1	1/29/2008 1:24:00 PM
Surr: 2-Fluorophenol	66.3	15-110		%REC	1	1/29/2008 1:24:00 PM
Surr: Nitrobenzene-d5	54.8	30-130		%REC	1	1/29/2008 1:24:00 PM
Surr: Phenol-d6	54.3	15-110		%REC	1	1/29/2008 1:24:00 PM
Surr: Terphenyl-d14	51.2	30-130		%REC	1	1/29/2008 1:24:00 PM
EPH TARGET ANALYTES - MADEP E	PH					Analyst: RDO
Naphthalene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
2-Methylnaphthalene	1.85	1.23		μg/L	1	1/29/2008 6:58:00 PM
Acenaphthene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
Phenanthrene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
Acenaphthylene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
Fluorene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
Anthracene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
Fluoranthene	ND	1.23		μg/L	1.	1/29/2008 6:58:00 PM
Pyrene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
Benzo(a)Anthracene	ND	0.494		μg/L	1	1/29/2008 6:58:00 PM
Chrysene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
Benzo(b)Fluoranthene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
Benzo(k)Fluoranthene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
Benzo(a)Pyrene	ND	0.247		μg/L	1	1/29/2008 6:58:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.494		μg/L	1	1/29/2008 6:58:00 PM
Dibenz(a,h)Anthracene	ND	0.494		μg/L	1	1/29/2008 6:58:00 PM
Benzo(g,h,i)Perylene	ND	1.23		μg/L	1	1/29/2008 6:58:00 PM
Total PAH Target Concentration	1.85	0		μg/L	1	1/29/2008 6:58:00 PM
Surr: 2,2'-Difluorobiphenyl	64.1	40-140		%REC	1	1/29/2008 6:58:00 PM
Surr: 2-Fluorobiphenyl	66.6	40-140		%REC	1	1/29/2008 6:58:00 PM
VOLATILE ORGANIC COMPOUNDS -	SW8260B					Analyst: MR
1,1,1,2-Tetrachloroethane	ND	5.00		μg/L	1	1/29/2008

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside recovery limits

- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

GeoLabs, Inc.

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order:

0801281

Project:

91-205546

Lab ID:

0801281-005

Client Sample ID: LFR-1

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual Units	DF	Date Analyzed
OLATILE ORGANIC COMPOUND	S - SW8260B				Analyst: MR
1,1,1-Trichloroethane	ND	5.00	μg/L	1	1/29/2008
1,1,2,2-Tetrachloroethane	ND	2.00	μg/L	1	1/29/2008
1,1,2-Trichloroethane	ND	5.00	μg/L	1	1/29/2008
1,1-Dichloroethane	ND	5.00	µg/L	1	1/29/2008
1,1-Dichloroethene	ND	5.00	μg/L	1	1/29/2008
1,1-Dichloropropene	ND	5.00	μg/L	1	1/29/2008
1,2,3-Trichlorobenzene	ND	5.00	µg/L	1	1/29/2008
1,2,3-Trichloropropane	ND	5.00	μg/L	1	1/29/2008
1,2,4-Trichlorobenzene	ND	5.00	µg/L	1	1/29/2008
1,2,4-Trimethylbenzene	44.9	5.00	µg/L	1	1/29/2008
1,2-Dibromo-3-Chloropropane	ND	5.00	μg/L	1	1/29/2008
1,2-Dibromoethane	ND	2.00	μg/L	1	1/29/2008
1,2-Dichlorobenzene	ND	5.00	μg/L	1	1/29/2008
1,2-Dichloroethane	ND	2.00	μg/L	1	1/29/2008
1,2-Dichloropropane	ND	2.00	μg/L	1	1/29/2008
1,3,5-Trimethylbenzene	11.3	5.00	µg/L	1	1/29/2008
1,3-Dichlorobenzene	ND	5.00	μg/L	1	1/29/2008
1,3-Dichloropropane	ND	5.00	μg/L	1	1/29/2008
1,4-Dichlorobenzene	ND	5.00	μg/L	1	1/29/2008
2,2-Dichloropropane	ND	5.00	μg/L	1	1/29/2008
2-Butanone	ND	10.0	μg/L	1	1/29/2008
2-Chloroethyl Vinyl Ether	ND	5.00	μg/L	1	1/29/2008
2-Chlorotoluene	ND	5.00	μg/L	1	1/29/2008
2-Hexanone	ND	10.0	μg/L	1	1/29/2008
4-Chlorotoluene	ND	5.00	μg/L	1	1/29/2008
4-isopropyltoluene	ND	5.00	μg/L	1	1/29/2008
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	1/29/2008
Acetone	ND	50.0	µg/L	1	1/29/2008
Acrolein	ND	50.0	µg/L	1	1/29/2008
Acrylonitrile	ND	50.0	µg/L	1	1/29/2008
Benzene	77.8	5.00	μg/L	1	1/29/2008
Bromobenzene	ND	5.00	μg/L	1	1/29/2008
Bromochioromethane	ND	2.00	μg/L	1	1/29/2008
Bromodichloromethane	ND	2.00	μg/L	1	1/29/2008
Bromoform	ND	2.00	µg/L	1	1/29/2008
Bromomethane	ND	2.00	μg/L	1	1/29/2008
Carbon Disulfide	ND	5.00	μg/L	1	1/29/2008
Carbon Tetrachloride	ND	2.00	μg/L	1	1/29/2008
Chlorobenzene	ND	5.00	μg/L	1	1/29/2008
Chloroethane	ND	5.00	μg/L	1	1/29/2008

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside recovery limits

- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

GeoLabs, Inc.

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order:

0801281

Project:

91-205546

Lab ID:

0801281-005

Client Sample ID: LFR-1

chefit Sample 1D. LTX-1

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual Units	DF	Date Analyzed
OLATILE ORGANIC COMPOUNDS	- SW8260B			one and the second se	Analyst: MR
Chloroform	ND	5.00	µg/∟	1	1/29/2008
Chloromethane	ND	5.00	μg/L	1	1/29/2008
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	1/29/2008
cis-1,3-Dichloropropene	ND	0.500	μg/L	1	1/29/2008
Dibromochloromethane	ND	2.00	μg/L	1	1/29/2008
Dibromomethane	ND	5.00	μg/L	1	1/29/2008
Dichlorodifluoromethane	ND	5.00	μg/L	1	1/29/2008
Ethylbenzene	14.4	5.00	μg/L	1	1/29/2008
Hexachlorobutadiene	ND	0.500	μg/L	1	1/29/2008
Isopropylbenzene	6.75	5.00	µg/L	1	1/29/2008
Methyl Tert-Butyl Ether	ND	5.00	μg/L	1	1/29/2008
Methylene Chloride	ND	5.00	μg/L	1	1/29/2008
Naphthalene	ND	20.0	μg/L	1	1/29/2008
n-Butylbenzene	ND	5.00	μg/L	1	1/29/2008
n-Propylbenzene	8.59	5.00	μg/L	1	1/29/2008
sec-Butylbenzene	ND	5.00	μg/L	1 .	1/29/2008
Styrene	ND	5.00	μg/L	1	1/29/2008
tert-Butylbenzene	ND	5.00	μg/L	1	1/29/2008
Tetrachloroethene	ND	5.00	μg/L	1	1/29/2008
Toluene	ND	5.00	μg/L	1	1/29/2008
trans-1,2-Dichloroethene	ND	5.00	μg/L	1	1/29/2008
trans-1,3-Dichloropropene	ND	0.500	μg/L	1	1/29/2008
Trichloroethene	ND	5.00	μg/L	1	1/29/2008
Trichlorofluoromethane	ND	5.00	μg/L	· 1	1/29/2008
Vinyl Chloride	ND	2.00	μg/L	1	1/29/2008
Xylenes, Total	98.1	5.00	μg/L	1	1/29/2008
Surr: 1,2-Dichloroethane-d4	116	70-130	%REC	1	1/29/2008
Surr: 4-Bromofluorobenzene	98.7	70-130	%REC	1	1/29/2008
Surr: Dibromofluoromethane	106	70-130	%REC	1	1/29/2008
Surr: Toluene-d8	86.4	70-130	%REC	1	1/29/2008
/PH - MADEP VPH					Analyst: MR
C9-C10 Aromatic Hydrocarbons	98.5	75.0	μg/L	1	1/29/2008
Unadjusted C5-C8 Aliphatic Hydrocarbons	328	75.0	µg/L	1	1/29/2008
Unadjusted C9-C12 Aliphatic Hydrocarbons	223	75.0	μg/L	1	1/29/2008
Methyl Tert-Butyl Ether	ND	5.00	μg/L	1	1/29/2008
Benzene	53. <i>0</i>	5.00	μg/L	1	1/29/2008
Toluene	ND	5.00	μg/L	1	1/29/2008

Qualifiers:

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside recovery limits

BRL Below Reporting Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

GeoLabs, Inc.

Reported Date: 01-Feb-08

CLIENT:

ECS

Lab Order: 0801281

Project:

91-205546

Lab ID:

0801281-005

Client Sample ID: LFR-1

Collection Date: 1/28/2008

Date Received: 1/28/2008

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VPH - MADEP VPH						Analyst: MR
Ethylbenzene	17.2	5.00		μg/L	1	1/29/2008
m,p-Xylene	97.3	5.00		μg/L	1	1/29/2008
o-Xylene	ND	5.00		µg/L	1	1/29/2008
Naphthalene	ND	20.0		μg/L	1	1/29/2008
Adjusted C5-C8 Aliphatic Hydrocarbons	275	75.0		µg/L	1	1/29/2008
Adjusted C9-C12 Aliphatic Hydrocarbons	ND	75.0		μg/L	1	1/29/2008
Surr: 2,5-Dibromotoluene FID	106	70-130		%REC	1	1/29/2008
Surr: 2,5-Dibromotoluene PID	83.6	70-130		%REC	1	1/29/2008
CYANIDE, TOTAL - SM4500-CN-C,E						Analyst: WFR
Cyanide, Total	ND	0.0197		mg/L	1	1/30/2008
TRIVALENT CHROMIUM IN WATER - 200	.7&3500C	:				Analyst: RP
Trivalent Chromium	ND	0.060		mg/L	1	1/30/2008
HEXAVALENT CHROMIUM - SM3500-CR	-D					Analyst: WFR
Chromium, Hexavalent	ND	0.0500	· ·	mg/L	1	1/29/2008
TOTAL RESIDUAL CHLORINE - HACH 81	167					Analyst: WFR
Total Residual Chlorine	0.170	0.162		mg/L	1	1/29/2008

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside recovery limits

- BRL Below Reporting Limit
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT:

0801281 Work Order:

Project:

91-205546

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W

Sample ID: MB-9224 Client ID: ZZZZ	SampType: MBLK Batch ID: 9224	TestCod	TestCode: 6010B_W TestNo: SW6010B	Units: mg/L (SW3010A)		Prep Date: Analysis Date:	Prep Date: Analysis Date: 1/30/2008	RunNo: 21777 SeqNo: 211598	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Beryllium Chromium	QN QN	0.00400							
Copper	QN	0.0400							
Nickel	QN	0.00400							
Zinc	ND	0.100							
Sample ID: LCS-9224	SampType: LCS	TestCoc	TestCode: 6010B_W	Units: mg/L		Prep Date:		RunNo: 21777	
Client ID: ZZZZZ	Batch ID: 9224	Test	TestNo: SW6010B	(SW3010A)		Analysis Date	Analysis Date: 1/30/2008	SeqNo: 211599	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Beryllium	1.900	0.00400	2	0	95.0	80	120		
Chromium	1.920	0.0800	2	0	0.96	80	120		
Copper	1.820	0.0400	2	0	91.0	80	120		
Nickel	1.940	0.00400	2	0.003	8.96	80	120		
Zinc	1.990	0.100	2	0.026	98.2	80	120		
Sample ID: LCSD-9224	SampType: LCS	TestCoc	TestCode: 6010B_W	Units: mg/L		Prep Date:	2	RunNo: 21777	
Client ID: ZZZZZ	Batch ID: 9224	TestN	TestNo: SW6010B	(SW3010A)		Analysis Date: 1/30/2008	: 1/30/2008	SeqNo: 211600	
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Beryllium	1.860	0.00400	2	0	93.0	80	120		
Chromium	1.910	0.0800	2	0	95.5	80	120		
Copper	1.840	0.0400	2	0	92.0	80	120		
Nickel	1.940	0.00400	2	0.003	8.96	80	120		
Zinc	1.980	0.100	2	0.026	7.76	80	120		

Analyte detected below quantitation limits Spike Recovery outside recovery limits BRL Below Reporting Limit - × Qualifiers:

E Value above quantitation range ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded RPD outside recovery limits H &

Page 2 of 26

Holding times for preparation or analysis exceeded

RPD outside recovery limits

H &

E Value above quantitation range ND Not Detected at the Reporting Limit

BRL Below Reporting Limit

J Analyte detected below quantitation limits

S Spike Recovery outside recovery limits

Qualifiers:

CLIENT: ECS

Work Order: 0801281

Project: 91-205546

TestCode: 8082_W

								Manage Ma	
Sample ID: WB1-9208	SampType: MBLK	TestCo	TestCode: 8082_W	Units: µg/L		Prep Date:	Prep Date: 1/29/2008	RunNo: 21784	
Client ID: ZZZZZ	Batch ID: 9208	Test	TestNo: SW8082	(8100M)	7	Analysis Date: 1/29/2008	1/29/2008	SeqNo: 211752	
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit Hi	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual	120
Aroclor 1221	QN	0.0300						- Account of the control of the cont	
Aroclor 1232	QN	0.0300							
Aroclor 1248	QN	0.0300							
Aroclor 1254	QN	0.0300							
Aroclor 1260	QN	0.0300							
Aroclor 1262	QN	0.0300							
Aroclor 1268	QN	0.0300							
Surr: Decachlorobiphenyl Sig 1	Sig 1 84.00	0	100	0	84.0	30	150		
Surr: Decachlorobiphenyl Sig 2	Sig 2 84.00	0	100	0	84.0	30	150		
Surr: Tetrachloro-m-Xylene Sig 1	Sig 1 66.00	0	100	0	0.99	30	150		
Surr: Tetrachloro-m-Xylene Sig 2	Sig 2 56.00	0	100	0	56.0	30	150		
Sample ID: LW1-9208	SampType: LCS	TestCod	TestCode: 8082 W	Units: µg/L		Prep Date: 1/29/2008	1/29/2008	RunNo: 21784	

Sample ID: LW1-9208	SampType: LCS	TestCo	TestCode: 8082_W	Units: µg/L		Prep Da	Prep Date: 1/29/2008		RunNo: 21784	784	
Client ID: ZZZZZ	Batch ID: 9208	Test	TestNo: SW8082	(8100M)		Analysis Da	Analysis Date: 1/29/2008		SeqNo: 211750	1750	
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	Ref Val	%RPD	%RPD RPDLimit Qual	Qual
Aroclor 1016/1242	92.40	0.0300	100	0	92.4	40	140				
Aroclor 1221	Q	0.0300									
Aroclor 1232	QN	0.0300									
Aroclor 1248	QN	0.0300									
Aroclor 1254	Ω	0.0300									
Aroclor 1260	87.30	0.0300	100	0	87.3	40	140				
Aroclor 1262	Q	0.0300									
Aroclor 1268	Q	0.0300									
Surr: Decachlorobiphenyl Sig 1	1 92.00	0	100	0	92.0	30	150				
Surr: Decachlorobiphenyl Sig 2	104.0	0	100	0	104	30	150				
Surr: Tetrachloro-m-Xylene Sig 1	g 1 76.00	0	100	0	76.0	30	150				
Surr: Tetrachloro-m-Xylene Sig 2	g 2 70.00	0	100	0	70.0	30	150				

RPD outside recovery limits

H R

E Value above quantitation range ND Not Detected at the Reporting Limit

BRL Below Reporting Limit

J Analyte detected below quantitation limits

S Spike Recovery outside recovery limits

Qualifiers:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082 W

0801281 91-205546

CLIENT: Work Order:

Project:

Sample ID: LW22-9208	SampType: LCS	TestCoc	TestCode: 8082_W	Units: µg/L		Prep Dat	Prep Date: 1/29/2008	RunNo: 21784		
Client ID: ZZZZZ	Batch ID: 9208	Test	TestNo: SW8082	(8100M)	-	Analysis Da	Analysis Date: 1/29/2008	SeqNo: 211751		
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	al %RPD RPDLimit Qual	PDLimit	Qual
Aroclor 1016/1242	94.20	0.0300	100	0	94.2	40	140			
Aroclor 1221	QN	0.0300								
Aroclor 1232	QN	0.0300								
Aroclor 1248	ND	0.0300								
Aroclor 1254	QN	0.0300								
Aroclor 1260	00.77	0.0300	100	0	77.0	40	140			
Aroclor 1262	QN	0.0300								
Aroclor 1268	QN	0.0300								
Surr: Decachlorobiphenyl Sig 1	1 82.00	0	100	0	82.0	30	150			
Surr: Decachlorobiphenyl Sig 2	2 88.00	0	100	0	88.0	30	150			
Surr: Tetrachloro-m-Xylene Sig 1	ig 1 64.00	0	100	0	64.0	30	150			
Surr: Tetrachloro-m-Xylene Sig 2	ig 2 60.00	0	100	0	0.09	30	150			

Analyte detected below quantitation limits Spike Recovery outside recovery limits

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: MB	SampType: MBLK	TestCode: 8260B_W	Units: µg/L	Prep Date:	RunNo: 21820
Client ID: ZZZZZ	Batch ID: R21820	TestNo: SW8260B		Analysis Date: 1/29/2008	SeqNo: 212162

91-205546 0801281

Project:

Work Order: CLIENT:

Sample ID: MB	SampType: MBLK	TestCode	TestCode: 8260B_W	Units: µg/L		Prep Date:	'n:		RunNo: 21820	320	
Client ID: ZZZZ	Batch ID: R21820	TestNo	TestNo: SW8260B			Analysis Date:	: 1/29/2008	80	SeqNo: 212162	162	
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	QN	5.00									
1,1,1-Trichloroethane	Q	5.00									
1,1,2,2-Tetrachloroethane	QN	2.00									
1,1,2-Trichloroethane	QN	2.00									
1,1-Dichloroethane	QN	2.00									
1,1-Dichloroethene	QN	2.00									
1,1-Dichloropropene	Q	5.00									
1,2,3-Trichlorobenzene	Q	2.00									
1,2,3-Trichloropropane	Q	2.00									
1,2,4-Trichlorobenzene	QN	5.00									
1,2,4-Trimethylbenzene	Q	2.00									
1,2-Dibromo-3-Chloropropane	QN	2.00									
1,2-Dibromoethane	QN	2.00									
1,2-Dichlorobenzene	QN	2.00									
1,2-Dichloroethane	Q	2.00									
1,2-Dichloropropane	QN	2.00									
1,3,5-Trimethylbenzene	QN	5.00									
1,3-Dichlorobenzene	QN	2.00									
1,3-Dichloropropane	QN	2.00									
1,4-Dichlorobenzene	QN	5.00									•
2,2-Dichloropropane	QN	5.00									
2-Butanone	QN	10.0									
2-Chloroethyl Vinyl Ether	QN	2.00			<						
2-Chlorotoluene	QN	5.00									
2-Hexanone	QN	10.0									
4-Chlorotoluene	QN	2.00									
4-Isopropyltoluene	QN	5.00									
4-Methyl-2-Pentanone	QN	5.00									
Acetone	QN	20.0									
Acrolein	QN	20.0									
Acrylonitrile	QN	50.0									
Qualifiers: BRL Below Reporting Limit	rting Limit		E Value	Value above quantitation range	ge		H	Holding times for preparation or analysis exceeded	reparation or ar	nalvsis exceede	Į p
Analyte deter	Analyte detected below quantitation limits		ND Not De	Not Detected at the Reporting Limit	r I imit			DDD cutcide secretary limits	way lisasito		
Anna and Sanger .	come colon daminament muno			מבפובת מו חוד זהלימיות	g Lunur			or D outstacterove	ay mmes		

Spike Recovery outside recovery limits

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CLIENT:

0801281 Work Order:

91-205546 Project:

TestCode: 8260B_W

Sample ID: INB	samplype: MBLK	lestCode: 8260B_W	8260B_W	Units: hg/L	Prep Date:		RunNo: 21820	MANAGEMENT OF THE PARTY OF THE
Client ID: ZZZZZ	Batch ID: R21820	TestNo:	TestNo: SW8260B		Analysis Date:	1/29/2008	SeqNo: 212162	-
Analyte	Result	POL	SPK value	SPK Ref Val	%REC LowLimit Hig	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Benzene	QN	5.00						
Bromobenzene	QN	5.00						
Bromochloromethane	QN	2.00						
Bromodichloromethane	QN	2.00						
Bromoform	QN	2.00						
Bromomethane	QN	2.00						
Carbon Disulfide	ΩN	5.00						
Carbon Tetrachloride	QV	2.00						
Chlorobenzene	QN	5.00						
Chloroethane	QN	5.00						
Chloroform	QN	2.00						
Chloromethane	Q.	5.00						
cis-1,2-Dichloroethene	QV	2.00						
cis-1,3-Dichloropropene	QN	0.500						
Dibromochloromethane	QN	2.00						
Dibromomethane	QN	5.00						
Dichlorodifluoromethane	QN	5.00						
Ethylbenzene	ND	5.00						
Hexachlorobutadiene	QN	0.500						
Isopropylbenzene	ON.	5.00						
Methyl Tert-Butyl Ether	QN	5.00						
Methylene Chloride	QV	5.00						
Naphthalene	QN	20.0						
n-Butylbenzene	QN	5.00						
n-Propylbenzene	QN	2.00						
sec-Butylbenzene	QN	5.00						
Styrene	QN	5.00						
tert-Butylbenzene	QN	5.00						
Tetrachloroethene	QN	2.00						
Toluene	QN	2.00						
trans-1,2-Dichloroethene	QN	5.00						
Qualifiers: BRL Below Reporting Limit	ting Limit	violet in the second se	E Value al	Value above quantitation range	je	H Holding times for p	Holding times for preparation or analysis exceeded	9
-	Analyte detected below quantitation limits	~	_	Not Detected at the Reporting I imit	imit.		The state of the s	ì
or in the control of	ora com dammina mino	•		outes at the responting	, Limit		ay muus	

Page 6 of 26

ECS CLIENT:

0801281 Work Order:

91-205546 Project:

TestCode: 8260B_W

Sample ID: MB	SampType: MBLK	TestCod	TestCode: 8260B_W	Units: µg/L		Prep Date:	ï		RunNo: 21820	
Client ID: ZZZZZ	Batch ID: R21820	TestN	TestNo: SW8260B			Analysis Date:	9: 1/29/2008		SeqNo: 212162	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD	RPD Ref Val	%RPD RPDLimit	t Qual
trans-1,3-Dichloropropene	QN	0.500		HIII TO THE TOTAL PROPERTY OF THE TOTAL PROP	-					
Trichloroethene	QN	2.00								
Trichlorofluoromethane	QN	5.00								
Vinyl Chloride	Q	2.00								
Xylenes, Total	QN	2.00								
Surr: 1,2-Dichloroethane-d4	32.33	0	30	0	108	70	130			
Surr: 4-Bromofluorobenzene	35.07	0	30	0	117	70	130			
Surr: Dibromofluoromethane	30.75	0	30	0	103	70	130			
Surr: Toluene-d8	29.86	0	30	0	99.5	70	130			
Sample ID: LCS	SampType: LCS	TestCod	TestCode: 8260B_W	Units: µg/L		Prep Date:			RunNo: 21820	
Client ID: ZZZZ	Batch ID: R21820	TestN	TestNo: SW8260B			Analysis Date:	3: 1/29/2008		SeqNo: 212163	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD I	RPD Ref Val	%RPD RPDLimit	t Qual
1,1,1,2-Tetrachloroethane	51.21	5.00	50	0	102	02	130			
1,1,1-Trichloroethane	60.59	2.00	20	0	121	70	130			
1,1,2,2-Tetrachloroethane	63.83	2.00	20	0	128	70	130			
1,1,2-Trichloroethane	58.96	5.00	50	0	118	70	130			
1,1-Dichloroethane	58.20	5.00	20	0	116	70	130			
1,1-Dichloroethene	56.85	5.00	20	0	114	70	130			
1,1-Dichloropropene	27.69	2.00	50	0	115	70	130			
1,2,3-Trichloropropane	02.09	2.00	20	0	121	70	130			
1,2,4-Trichlorobenzene	81.25	2.00	20	0	162	70	130			S
1,2,4-Trimethylbenzene	39.77	5.00	50	0	79.5	70	130			
1,2-Dibromoethane	57.92	2.00	20	0	116	70	130			
1,2-Dichlorobenzene	55.18	5.00	20	0	110	20	130			
1,2-Dichloroethane	62.80	2.00	50	0	126	70	130			
1,2-Dichloropropane	61.54	2.00	20	0	123	70	130			
1,3,5-Trimethylbenzene	40.52	2.00	50	0	81.0	70	130			
1,3-Dichlorobenzene	51.47	2.00	20	0	103	70	130			
Qualifiers: BRL Below Reporting Limit	ting Limit	***************************************	E Value	Value above quantitation range	lge		H Holding	times for pre	Holding times for preparation or analysis exceeded	pepe
,	Analyte detected below quantitation limits		ND Not De	Not Detected at the Reporting Limit	g Limit		R RPD out	RPD outside recovery limits	/ limits	
S Spike Recover	Spike Recovery outside recovery limits								I	Page 6 of 26

Analyte detected below quantitation limits Spike Recovery outside recovery limits

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

91-205546 0801281

Project:

Work Order: CLIENT:

Sample ID: LCS	SampType: LCS	TestCode: 8260B_W	Units: µg/L	Prep Date:	RunNo: 21820
Client ID: ZZZZ	Batch ID: R21820	TestNo: SW8260B		Analysis Date: 1/29/2008	SeqNo: 212163
Analyte	Result	PQL SPK value SPK Ref Val		%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Sample ID: LCS	SampType: LCS	TestCoc	TestCode: 8260B_W	Units: µg/L		Prep Date:	.0	RunNo: 21820	21820	
Client ID: ZZZZZ	Batch ID: R21820	Test	TestNo: SW8260B			Analysis Date:	e: 1/29/2008	SeqNo: 212163	212163	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	/al %RPD	D RPDLimit	Qual
1,3-Dichloropropane	55.98	5.00	20	0	112	70	130			
1,4-Dichlorobenzene	50.82	2.00	20	0	102	70	130			
2,2-Dichloropropane	54.35	5.00	20	0	109	70	130			
2-Butanone	62.72	10.0	20	0	125	70	130			
2-Chloroethyl Vinyl Ether	61.38	2.00	20	0	123	70	130			
2-Chlorotoluene	47.24	5.00	20	0	94.5	70	130			
2-Hexanone	62.95	10.0	20	0	126	70	130			
4-Chlorotoluene	41.02	5.00	20	0	82.0	70	130			
4-Isopropyltoluene	46.38	5.00	20	0	92.8	70	130			
4-Methyl-2-Pentanone	64.47	5.00	20	0	129	70	130			
Acetone	59.68	50.0	90	0	119	70	130			
Benzene	61.24	5.00	50	0	122	70	130			
Bromobenzene	49.13	5.00	20	0	98.3	20	130			
Bromochloromethane	62.56	2.00	50	0	125	70	130			
Bromodichloromethane	59.21	2.00	20	0	118	20	130			
Bromoform	61.66	2.00	20	0	123	20	130			
Bromomethane	47.78	2.00	50	0	92.6	70	130			
Carbon Disulfide	52.75	5.00	20	0	106	70	130			
Carbon Tetrachloride	59.75	2.00	20	0	120	70	130			
Chlorobenzene	46.87	5.00	20	0	93.7	20	130			
Chloroethane	48.93	5.00	20	0	6.76	70	130			
Chloroform	61.04	5.00	20	0	122	70	130			
Chloromethane	43.49	5.00	50	0	87.0	20	130			
cis-1,2-Dichloroethene	58.23	5.00	50	0	116	20	130			
cis-1,3-Dichloropropene	59.46	0.500	50	0	119	20	130			
Dibromochloromethane	58.70	2.00	50	0	117	20	130			
Dibromomethane	64.25	2.00	50	0	128	70	130			
Dichlorodifluoromethane	38.57	2.00	20	0	77.1	70	130			
Ethylbenzene	49.11	5.00	20	0	98.2	70	130			
Hexachlorobutadiene	57.55	0.500	20	0	115	70	130			
Isopropylbenzene	48.81	5.00	20	0	97.6	70	130			
Oualifiers: BRL Below Reporting Limit	rting Limit		E Values	Value above quantitation range	GP	A	H Holding times	Holding times for menoration or anolyzis avocaded	anolusis ovos	- Par
-	Analyte detected below montitution limits		,	toots yaminimuses sun)			i lOi pitcparation o	If allatysis call	aea
y Alialyte detec	cted below quantination minus			Not Detected at the Keporting Limit	g Limit		K RPD outside i	RPD outside recovery limits		

CLIENT:

0801281 Work Order:

Project:

91-205546

ANALYTICAL QC SUMMARY REPORT

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Sample ID: LCS	SampType: LCS	TestCo	TestCode: 8260B_W	Units: µg/L		Prep Date:	i.		RunNo: 21820	320	
Client ID: ZZZZZ	Batch ID: R21820	Test	TestNo: SW8260B		-	Analysis Date: 1/29/2008	e: 1/29/20/	90	SeqNo: 212163	2163	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Tert-Butyl Ether	70.19	5.00	20	0	140	70	130				S
Methylene Chloride	59.91	5.00	50	0	120	70	130				
Naphthalene	108.5	20.0	90	0	217	70	130				ဟ
n-Butylbenzene	39.98	2.00	50	0	80.0	70	130				
n-Propylbenzene	44.70	2.00	50	0	89.4	70	130				
sec-Butylbenzene	52.89	2.00	50	0	106	70	130				
Styrene	44.10	5.00	20	0	88.2	70	130				
tert-Butylbenzene	51.19	2.00	50	0	102	70	130				
Tetrachloroethene	51.91	5.00	50	0	104	70	130				
Toluene	49.33	5.00	20	0	98.7	70	130				
trans-1,2-Dichloroethene	57.70	5.00	20	0	115	70	130				
trans-1,3-Dichloropropene	51.95	0.500	20	0	104	70	130				
Trichloroethene	52.25	2.00	20	0	104	70	130				
Trichlorofluoromethane	47.89	5.00	20	0	95.8	70	130				
Vinyl Chloride	46.99	2.00	20	0	94.0	70	130				
Xylenes, Total	141.6	2.00	150	0	94.4	70	130				
Surr: 1,2-Dichloroethane-d4	33.52	0	30	0	112	70	130				
Surr: 4-Bromofluorobenzene	27.03	0	30	0	90.1	70	130				
Surr: Dibromofluoromethane	34.62	0	30	0	115	70	130				
Surr: Toluene-d8	28.90	0	30	0	96.3	70	130				

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

Qualifiers:

E Value above quantitation range ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded н

RPD outside recovery limits

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

91-205546 0801281

Project:

Work Order: CLIENT:

Sample ID: WB1-9206	SampType: MBLK	TestCode: 8270_W	Units: µg/L	Prep Date:	Prep Date: 1/29/2008	RunNo: 21765	
Client ID: ZZZZZ	Batch ID: 9206	TestNo: SW8270C	(SW3510)	Analysis Date:	1/29/2008	SeqNo: 211849	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	ghLimit RPD Ref Val	%RPD RPDLimit Qual	Qual

Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	WKPU	KPULIMIT	Qual
1,2,4-Trichlorobenzene	QN	1.00									
1,2-Dichlorobenzene	QN	1.00									
1,2-Dinitrobenzene	N Q	1.00									
1,3-Dichlorobenzene	QN	1.00									
1,3-Dinitrobenzene	QN	1.00									
1,4-Dichlorobenzene	QN	1.00									
1,4-Dinitrobenzene	QN	1.00									
2,3,4,6-Tetrachlorophenol	Q	1.00									
2,4,5-Trichlorophenol	QN	1.00									
2,4,6-Trichlorophenol	Q	1.00									
2,4-Dichlorophenol	QN	1.00		·							
2,4-Dimethylphenol	QN	1.00									
2,4-Dinitrophenol	QN	5.00									
2,4-Dinitrotoluene	Q	1.00									
2,6-Dinitrotoluene	ND	1.00									
2-Chloronaphthalene	ΩN	1.00									
2-Chlorophenol	QN	1.00									
2-Methylnaphthalene	N	1.00									
2-Methylphenol	N Q	1.00									
2-Nitroaniline	Q.	1.00									
2-Nitrophenol	QN ON	1.00									
3,3'-Dichlorobenzidine	ND	1.00			208						
3-Methylphenol/4-Methylphenol	QN	1.00									
3-Nitroaniline	Q	1.00									
4,6-Dinitro-2-Methylphenol	QN	5.00									
4-Bromophenyl Phenyl Ether	Q	1.00									
4-Chloro-3-Methylphenol	ND	1.00									
4-Chloroaniline	ΩN	1.00									
4-Chlorophenyl Phenyl Ether	ΩN	1.00									
4-Nitroaniline	Ω	1.00									
4-Nitrophenol	ND	1.00									
Qualifiers: BRL Below Reporting Limit			,	Value above quantitation range	že		Н	Holding times for preparation or analysis exceeded	paration or an	alysis exceed	led
	nantitation limits		ND Not	Not Detected at the Reporting Limit	Limit		×	RPD outside recovery limits	' limits		
S Spike Recovery outside recovery limits	scovery limits										

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CLIENT:

0801281 Work Order:

91-205546 Project:

TestCode: 8270_w

Sample ID: WEL-0206	CompTime: MDI I	Toctool	ToctCode: 0370 W	Haite:		Drop Doto:	4 100 1000	DNic. 04401	101	
	Samplybe: MBLN	nooles -	6. 02/0_W	Ollits, pg/L		Lieb Dail		Landing. Z.	co/	
Client ID: ZZZZZ	Batch ID: 9206	TestN	TestNo: SW8270C	(SW3510)	An	Analysis Date:	e: 1/29/2008	SeqNo: 211849	1849	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	QN	1.00		- H.						
Acenaphthylene	Q	1.00								
Acetophenone	QN	1.00								
Aniline	QN	5.00								
Anthracene	QN	1.00								
Azobenzene	QN	5.00								
Benz(a)Anthracene	QN	0.100								
Benzidine	QN	5.00								
Benzo(a)Pyrene	QN	0.100								
Benzo(b)Fluoranthene	QN	0.500								
Benzo(g,h,i)Perylene	QN	1.00								
Benzo(k)Fluoranthene	QN	0.500								
Benzyl Alcohol	QN	1.00								
Bis(2-Chloroethoxy)Methane	QN	1.00		ν.						
Bis(2-Chloroethyl)Ether	QN	1.00								
Bis(2-Chloroisopropyl)Ether	QN	1.00								
Bis(2-Ethylhexyl)Phthalate	QN	1.00								
Butyl Benzyl Phthalate	QN	1.00								
Carbazole	QN	1.00								
Chrysene	QN	1.00								
Dibenz(a,h)Anthracene	QN	0.100								
Dibenzofuran	QN	1.00								
Diethyl Phthalate	QN	1.00								
Dimethyl Phthalate	QN	1.00								
Di-n-Butyl Phthalate	QN	1.00								
Di-n-Octyl Phthalate	QN	1.00								
Fluoranthene	QN	1.00								
Fluorene	QN	1.00								
Hexachlorobenzene	QN	0.100								
Hexachlorobutadiene	QV	0.100								
Hexachlorocyclopentadiene	QN	5.00								
Qualifiers: BRL Below Reporting Limit	ring Limit		E Value a	Value above quantitation range			H Holding times for preparation or analysis exceeded	preparation or a	malysis exceede	pq
•	Analyte detected below quantitation limits		ND Not Det	Not Detected at the Reporting Limit	imit		R RPD outside recovery limits	ery limits		
S Spike Recove	Spike Recovery outside recovery limits								Pag	Page 10 of 26

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Holding times for preparation or analysis exceeded

RPD outside recovery limits

H R

E Value above quantitation range ND Not Detected at the Reporting Limit

> Analyte detected below quantitation limits Spike Recovery outside recovery limits

- s

BRL Below Reporting Limit

Qualifiers:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

TestCode

0801281 91-205546

Project:

CLIENT: Work Order:

Sample ID: WB1-9206	SampType: MBLK	TestCoc	TestCode: 8270 W	Units: ua/L		Prep Date:	1/29/2008	RunNo: 21765		
Client ID: ZZZZZ	Batch ID: 9206	Test	TestNo: SW8270C	(SW3510)		Analysis Date: 1/29/2008	: 1/29/2008	SeqNo: 211849		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	%RPD RPI	RPDLimit G	Qual
Hexachloroethane	QN	1.00					The state of the s			
Indeno(1,2,3-cd)Pyrene	QN	0.100								
Isophorone	QN	1.00								
Naphthalene	QN	1.00								
Nitrobenzene	QN	1.00								
N-Nitrosodimethylamine	QN	2.00								
N-Nitrosodi-n-Propylamine	QN	1.00			· · ·					
N-Nitrosodiphenylamine	QN	5.00								
Pentachlorophenol	QN	1.00			*					
Phenanthrene	QN	1.00								
Phenol	QN	1.00								
Pyrene	QN	1.00								
Pyridine	Q	5.00								
Surr: 2,4,6-Tribromophenol	112.6	0	75	0	150	15	150			S
Surr: 2-Fluorobiphenyl	22.74	0	50	0	45.5	30	130			
Surr: 2-Fluorophenol	44.19	0	75	0	58.9	15	110			
Surr: Nitrobenzene-d5	26.13	0	50	0	52.3	30	130			
Surr: Phenol-d6	34.24	0	75	0	45.7	15	110			
Surr: Terphenyl-d14	30.76	0	20	0	61.5	30	130			
Sample ID: LW1-9206	SampType: LCS	TestCoc	TestCode: 8270_w	Units: µg/L		Prep Date:	1/29/2008	RunNo: 21765		
Client ID: ZZZZZ	Batch ID: 9206	Test	TestNo: SW8270C	(SW3510)		Analysis Date:	1/29/2008	SeqNo: 211850		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD RP	RPDLimit Q	Qual
					-					

Batch ID: 9206 TestNo: SW8270C (SW3510) Analysis Date: 1/29/2008 1e Result PQL SPK Nalue SPK Ref Val %REC LowLimit HighLimit RPD Ref Val 1e 14.72 1.00 25 0 58.9 40 140 15.88 1.00 25 0 63.5 40 140 18.38 1.00 25 0 60.2 40 140 15.04 1.00 25 0 60.2 40 140 20.12 1.00 25 0 60.2 40 140 20.12 1.00 25 0 60.2 40 140	Eatch ID: 9: chlorobenzene robenzene robenzene orobenzene	Toothle: SM0270								
Result PQL SPK value SPK Ref Val chlorobenzene 14.72 1.00 25 0 robenzene 18.38 1.00 25 0 lorobenzene 15.04 1.00 25 0 robenzene 20.12 1.00 25 0	chlorobenzene lorobenzene robenzene lorobenzene	LESTING. SANDELO		*	^nalysis Dat	e: 1/29/2008		SeqNo: 211850	1850	
16 14.72 1.00 25 0 58.9 40 15.88 1.00 25 0 63.5 40 18.38 1.00 25 0 73.5 40 15.04 1.00 25 0 60.2 40 20.12 1.00 25 0 80.5 40	91	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD F	Ref Val	%RPD	%RPD RPDLimit Qual	Qual
15.88 1.00 25 0 63.5 40 18.38 1.00 25 0 73.5 40 15.04 1.00 25 0 60.2 40 20.12 1.00 25 0 80.5 40			0	58.9	40	140				
18.38 1.00 25 0 73.5 40 15.04 1.00 25 0 60.2 40 20.12 1.00 25 0 80.5 40	a)		0	63.5	40	140				
15.04 1.00 25 0 60.2 40 20.12 1.00 25 0 80.5 40			0	73.5	40	140				
20.12 1.00 25 0 80.5 40			0	60.2	40	140				
			0	80.5	40	140				
15.12 1.00 25 0 60.5 40	1,4-Dichlorobenzene	1.00	0	60.5	40	140				

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ECS CLIENT:

0801281 Work Order:

Project:

91-205546

TestCode: 8270_w

Sample ID: LW1-9206	SampType: LCS	TestCoc	TestCode: 8270_w	Units: µg/L		Prep Date:	1/29/2008	RunNo: 21765	
Client ID: ZZZZZ	Batch ID: 9206	Test	TestNo: SW8270C	(SW3510)		Analysis Date:	1/29/2008	SeqNo: 211850	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref Val	Val %RPD RPDLimit	mit Qual
1,4-Dinitrobenzene	20.00	1.00	25	0	80.0	40	140		
2,3,4,6-Tetrachlorophenol	17.71	1.00	25	0	70.8	30	130		
2,4,5-Trichlorophenol	19.58	1.00	25	0	78.3	30	130		
2,4,6-Trichlorophenol	18.36	1.00	25	0	73.4	30	130		
2,4-Dichlorophenol	17.49	1.00	25	0	70.0	30	130		
2,4-Dimethylphenol	18.04	1.00	25	0	72.2	30	130		
2,4-Dinitrophenol	QN	5.00	25	0	0	30	130		S
2,4-Dinitrotoluene	17.08	1.00	25	0	68.3	40	140		
2,6-Dinitrotoluene	20.74	1.00	25	0	83.0	40	140		
2-Chloronaphthalene	16.22	1.00	25	0	64.9	40	140		
2-Chlorophenol	19.06	1.00	25	0	76.2	30	130		
2-Methylnaphthalene	17.68	1.00	25	0	70.7	40	140		
2-Methylphenol	19.21	1.00	25	0	76.8	30	130		
2-Nitroaniline	24.50	1.00	25	0	98.0	40	140		
3,3'-Dichlorobenzidine	19.17	1.00	25	0	76.7	40	140		
3-Methylphenol/4-Methylphenol	16.84	1.00	25	0	67.4	30	130		
3-Nitroaniline	29.06	1.00	25	0	116	40	140		
4-Bromophenyl Phenyl Ether	17.22	1.00	25	0	68.9	40	140		
4-Chloro-3-Methylphenol	22.40	1.00	25	0	9.68	30	130		
4-Chloroaniline	20.54	1.00	25	0	82.2	40	140		
4-Chlorophenyl Phenyl Ether	15.62	1.00	25	0	62.5	40	140		
4-Nitroaniline	29.06	1.00	25	0	116	40	140		
4-Nitrophenol	8.060	1.00	25	0	32.2	30	130		
Acenaphthene	17.13	1.00	25	0	68.5	40	140		
Acenaphthylene	17.92	1.00	25	0	71.7	40	140		
Acetophenone	16.42	1.00	25	0	65.7	40	140		
Aniline	13.90	5.00	25	0	55.6	40	140		
Anthracene	18.74	1.00	25	0	74.9	40	140		
Azobenzene	18.59	5.00	25	0	74.4	40	140		
Benz(a)Anthracene	18.46	0.100	25	0	73.8	40	140		
Benzo(a)Pyrene	17.41	0.100	. 25	0	9.69	40	140		
Qualifiers: BRL Below Reporting Limit	rting Limit		E Value a	Value above quantitation range	ge		H Holding tin	Holding times for preparation or analysis exceeded	ceeded
•	Analyte detected below quantitation limits		ND Not Det	Not Detected at the Reporting Limit	g Limit		R RPD outsic	RPD outside recovery limits	
S Spike Recove	Spike Recovery outside recovery limits								Page 12 of 26

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

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Sample ID: LW1-9206	SampType: LCS	TestCode: 8270_w	Units: µg/L	Prep Date: 1/29/2008	1/29/2008	RunNo: 21765	
Client ID: ZZZZZ	Batch ID: 9206	TestNo: SW8270C	(SW3510)	Analysis Date: 1/29/2008	1/29/2008	SeqNo: 211850	

0801281 91-205546

Work Order: CLIENT:

Project:

Sample ID: LW1-9206	SampType: LCS	TestCod	TestCode: 8270 w	Units: µg/L		Prep Date:	: 1/29/2008		RunNo: 21765	765	
Client ID: ZZZZ	Batch ID: 9206	TestN	TestNo: SW8270C	(SW3510)		Analysis Date:	1/29/2008		SeqNo: 211850	1850	,
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPI	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)Fluoranthene	18.72	0.500	25	0	74.9	40	140				
Benzo(g,h,i)Perylene	18.17	1.00	25	0	72.7	40	140				
Benzo(k)Fluoranthene	16.37	0.500	25	0	65.5	40	140				
Benzyl Alcohol	19.18	1.00	25	0	7.97	40	140				
Bis(2-Chloroethoxy)Methane	17.56	1.00	25	0	70.3	40	140				
Bis(2-Chloroethyl)Ether	18.06	1.00	25	0	72.2	40	140				
Bis(2-Chloroisopropyl)Ether	22.34	1.00	25	0	89.4	40	140				
Bis(2-Ethylhexyl)Phthalate	20.75	1.00	25	0	83.0	40	140				
Butyl Benzyl Phthalate	22.12	1.00	25	0	88.5	40	140				
Carbazole	21.24	1.00	25	0	84.9	40	140				
Chrysene	18.98	1.00	25	0	75.9	40	140				
Dibenz(a,h)Anthracene	16.62	0.100	25	0	66.5	40	140				
Dibenzofuran	18.38	1.00	25	0	73.5	40	140				
Diethyl Phthalate	19.33	1.00	25	0	77.3	40	140				
Dimethyl Phthalate	15.58	1.00	25	0	62.3	40	140				
Di-n-Butyl Phthalate	17.10	1.00	25	0	68.4	40	140				
Di-n-Octyl Phthalate	20.84	1.00	25	0	83.4	40	140				
Fluoranthene	20.56	1.00	25	0	82.3	40	140				
Fluorene	16.70	1.00	25	0	8.99	40	140				
Hexachlorobenzene	16.86	0.100	25	0	67.4	40	140				
Hexachlorobutadiene	13.80	0.100	25	0	55.2	40	140				
Hexachloroethane	13.60	1.00	25	0	54.4	40	140				
Indeno(1,2,3-cd)Pyrene	17.03	0.100	25	0	68.1	40	140				
Isophorone	19.04	1.00	25	0	76.2	40	140				
Naphthalene	16.58	1.00	25	0	66.3	40	140				
Nitrobenzene	24.48	1.00	25	0	6.76	40	140				
N-Nitrosodimethylamine	21.02	5.00	25	0	84.1	40	140				
N-Nitrosodi-n-Propylamine	22.01	1.00	25	0	88.0	40	140				
N-Nitrosodiphenylamine	17.46	5.00	25	0	6.69	40	140				
Pentachlorophenol	8.530	1.00	25	0	34.1	30	130				
Phenanthrene	18.46	1.00	25	0	73.8	40	140				
Qualifiers: BRL Below Reporting Limit	ting Limit		E Value	Value above quantitation range	ge		H Holdin	ng times for p	reparation or a	Holding times for preparation or analysis exceeded	Þ
·	Analyte detected below quantitation limits		ND Not De	Not Detected at the Reporting Limit	g Limit		R RPD o	RPD outside recovery limits	rry limits		
S Spike Recover	Spike Recovery outside recovery limits									Page	Page 13 of 26

CLIENT:

0801281 Work Order: Project:

91-205546

TestCode: 8270_w

ANALYTICAL QC SUMMARY REPORT

Sample ID: LW1-9206 Client ID: ZZZZZ	SampType: LCS Batch ID: 9206	TestCoc	TestCode: 8270_w TestNo: SW8270C	Units: µg/L (SW3510)		Prep Date: 1/29/2008 Analysis Date: 1/29/2008	Prep Date: 1/29/2008 llysis Date: 1/29/2008	88 88	RunNo: 21765 SeqNo: 211850	65 850	
Analyte	Result	Pal	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Qual
Phenol	10.06	1.00	25	0	40.2	30	130				
Pyrene	19.24	1.00	25	0	77.0	40	140				
Pyridine	11.58	2.00	25	0	46.3	40	140				
Surr: 2,4,6-Tribromophenol	124.6	0	75	0	166	15	110				S
Surr: 2-Fluorobiphenyl	24.02	0	20	0	48.0	30	130				
Surr: 2-Fluorophenol	47.02	0	75	0	62.7	15	110				
Surr: Nitrobenzene-d5	27.51	0	50	0	55.0	30	130				
Surr: Phenol-d6	37.43	0	75	0	49.9	15	110				
Surr: Terphenyl-d14	31.89	0	20	0	63.8	30	130				

E Value above quantitation range ND Not Detected at the Reporting Limit Analyte detected below quantitation limits

Spike Recovery outside recovery limits

- x

BRL Below Reporting Limit

Qualifiers:

H

Holding times for preparation or analysis exceeded

RPD outside recovery limits

RPD outside recovery limits

H R

E Value above quantitation range ND Not Detected at the Reporting Limit

> Analyte detected below quantitation limits Spike Recovery outside recovery limits

BRL Below Reporting Limit

Qualifiers:

ANALYTICAL QC SUMMARY REPORT

TestCode: AG_W

	RinNo: 24705
	Pren Date:
	Inite: ma/l
Maring A	TestCode: AG W
	SamuTyne: MRIK
	¥

0801281 91-205546

Project:

CLIENT: Work Order:

Sample ID: MB-9224	SampType: MBLK	TestCode: AG_W	AG_W	Units: mg/L		Prep Date:	ö	RunNo: 21795	
Client ID: ZZZZZ	Batch ID: 9224	TestNo: 200.7	200.7	(SW3010A)		Analysis Dat	Analysis Date: 1/30/2008	SeqNo: 211816	
Analyte	Result	POLS	PK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual	Qual
Silver	ND	0.00700							
Sample ID: LCS-9224 Client ID: ZZZZZ	SampType: LCS Batch ID: 9224	TestCode: AG_W TestNo: 200.7	AG_W 200.7	Units: mg/L (SW3010A)		Prep Date:	Prep Date: Analysis Date: 1/30/2008	RunNo: 21795 SeaNo: 211817	
Analyte	Result	S TOA	PK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual	Qual
Silver	0.2010	0.00700	0.2	0	101	80	120		

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Holding times for preparation or analysis exceeded

RPD outside recovery limits

ВЯ

E Value above quantitation range ND Not Detected at the Reporting Limit

Analyte detected below quantitation limits Spike Recovery outside recovery limits

BRL Below Reporting Limit

Qualifiers:

0801281 Work Order:

CLIENT:

Project:

91-205546

TestCode: CN W SM

Sample ID: MB-R21799	SampType: MBLK	TestCoc	te: CN_W_SM	TestCode: CN_W_SM Units: mg/L		Prep Date:		RunNo: 21799	1799	
Client ID: ZZZZ	Batch ID: R21799	Test	TestNo: SM 4500-CN-	÷	*	Analysis Date: 1/30/2008	30/2008	SeqNo: 211908	11908	
Analyte	Result	PQL	SPK value SPK Ref Val	SPK Ref Val	%REC	LowLimit High	%REC LowLimit HighLimit RPD Ref Val		%RPD RPDLimit Qual	Qual
Cyanide, Total	QN	0.0197								

RPD outside recovery limits

H R

E Value above quantitation range ND Not Detected at the Reporting Limit

Analyte detected below quantitation limits Spike Recovery outside recovery limits

BRL Below Reporting Limit

Qualifiers:

CLIENT:

0801281 Work Order: 91-205546 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: Cr6_WW

Sample ID: MB-R21768	SampType: MBLK	TestCo	TestCode: Cr6_WW	Units: mg/L		Prep Date:	Perruapan erytura assaalummida erytyksiänin ja manaanin järjen, yykynet	RunNo: 21768		
Client ID: ZZZZZ	Batch ID: R21768	Test	TestNo: M3500-Cr D		. •	Analysis Date: 1/29/2008	9/2008	SeqNo: 211502		
Analyte	Result	POL	SPK value SPK Ref Val	SPK Ref Val	%REC	%REC LowLimit HighLimit RPD Ref Val	mit RPD Ref Val	%RPD RPDLimit Qual	Limit	Qual
Chromium, Hexavalent	ND	0.0500								
Sample ID: LCS-R21768	SampType: LCS	TestCoc	TestCode: Cr6_WW	Units: mg/L		Prep Date:	800070	RunNo: 21768		
Analyte	Result	POL	SPK value SPK Ref Val	SPK Ref Val	, %REC	Aliatysis Date: II.29/2006 %REC LowLimit HighLimit RPD Ref Val	erzuos mit RPD Ref Val	Sequo: 211503 %RPD RPDLimit Qual	Limit	Qual
Chromium, Hexavalent	0.4685	0.0500	0.5	0	93.7	85 1	115			

Page 18 of 26

Holding times for preparation or analysis exceeded

RPD outside recovery limits

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Not Detected at the Reporting Limit Value above quantitation range

E ND

Analyte detected below quantitation limits Spike Recovery outside recovery limits

BRL Below Reporting Limit

Qualifiers:

0801281 Work Order: CLIENT:

Project:

91-205546

EPHP_W	
TestCode:	

Sample ID: MB-9221	SampType: MBLK	TestCo	TestCode: EPHP_W	Units: µg/L		Prep Date: 1/29/2008	1/29/2008	RunNo: 21785	85	
Client ID: ZZZZZ	Batch ID: 9221	Test	TestNo: MADEP EPH_ (eph_Wpr)	(eph_Wpr)	Ana	Analysis Date: 1/29/2008	1/29/2008	SeqNo: 211720	720	
Analyte	Result	PQL	SPK value SP	SPK Ref Val	%REC Lo	owLimit Hig	%REC LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	QN	1.00								
2-Methylnaphthalene	QN	1.00								
Acenaphthene	QN	1.00								
Phenanthrene	QN	1.00								
Acenaphthylene	QN	1.00								
Fluorene	QN	1.00								
Anthracene	QN	1.00								
Fluoranthene	QN	1.00								
Pyrene	QN	1.00								
Benzo(a)Anthracene	Q	0.400								
Chrysene	QN	1.00								
Benzo(b)Fluoranthene	Q	1.00								
Benzo(k)Fluoranthene	QN	1.00								
Benzo(a)Pyrene	QN	0.200								
Indeno(1,2,3-cd)Pyrene	QN.	0.400								
Dibenz(a,h)Anthracene	Q	0.400								
Benzo(g,h,i)Perylene	QN	1.00								
Total PAH Target Concentration	Q	0								
Surr: 2,2'-Difluorobiphenyl	14.84	0	25	0	59.4	40	140			
Surr: 2-Fluorobiphenyl	15.82	0	25	0	63.3	40	140			

Sample ID: LCS-9221	SampType: LCS	TestCoc	TestCode: EPHP_W	Units: µg/L		Prep Dat	Prep Date: 1/29/2008	RunNo: 21785
Client ID: ZZZZZ	Batch ID: 9221	Test	lo: MADEP EP	TestNo: MADEP EPH_ (eph_Wpr)	`	Analysis Dat	Analysis Date: 1/29/2008	SeqNo: 211721
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Naphthalene	20.18	1.00	20	0	40.4	40	140	
2-Methylnaphthalene	22.29	1.00	20	0	44.6	40	140	
Acenaphthene	26.56	1.00	20	0	53.1	40	140	
Phenanthrene	27.20	1.00	50	0	54.4	40	140	
Acenaphthylene	25.52	1.00	90	0	51.0	40	140	

ECS CLIENT:

0801281 Work Order:

91-205546 Project:

TestCode: EPHP_W

ANALYTICAL QC SUMMARY REPORT

Sample ID: LCS-9221	SampType: LCS	TestCo	TestCode: EPHP_W	Units: µg/L		Prep Date:	Prep Date: 1/29/2008	RunNo: 21785		
Client ID: ZZZZZ	Batch ID: 9221	Test	TestNo: MADEP EPH_ (eph_Wpr)	_ (eph_Wpr)	•	Analysis Date: 1/29/2008	1/29/2008	SeqNo: 211721		
Analyte	Result	PQL	SPK value SPK Ref Val	PK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD RPD	RPDLimit Qual	
Fluorene	25.00	1.00	50	0	50.0	40	140]
Anthracene	28.65	1.00	50	0	57.3	40	140			
Fluoranthene	21.77	1.00	50	0	43.5	40	140			
Pyrene	29.39	1.00	50	0	58.8	40	140			
Benzo(a)Anthracene	27.35	0.400	50	0	54.7	40	140			
Chrysene	34.61	1.00	50	0	69.2	40	140			
Benzo(b)Fluoranthene	29.64	1.00	20	0	59.3	40	140			
Benzo(k)Fluoranthene	39.27	1.00	20	0	78.5	40	140			
Benzo(a)Pyrene	38.91	0.200	20	0	77.8	40	140			
Indeno(1,2,3-cd)Pyrene	25.23	0.400	20	0	50.5	40	140			
Dibenz(a,h)Anthracene	25.06	0.400	50	0	50.1	40	140			
Benzo(g,h,i)Perylene	24.23	1.00	20	0	48.5	40	140			
Surr: 2,2'-Difluorobiphenyl	15.24	0	25	0	61.0	40	140			
Surr: 2-Fluorobiphenyl	17.20	0	25	0	68.8	40	140			

E Value above quantitation range ND Not Detected at the Reporting Limit

Analyte detected below quantitation limits Spike Recovery outside recovery limits

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BRL Below Reporting Limit

Qualifiers:

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Holding times for preparation or analysis exceeded

RPD outside recovery limits

RPD outside recovery limits

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E Value above quantitation range ND Not Detected at the Reporting Limit

J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits Spike Recovery outside recovery limits

BRL Below Reporting Limit

Qualifiers:

CLIENT:

0801281 Work Order:

91-205546 Project:

TestCode: epht_w

Client ID: ZZZZZ	SampType: MBLK	TestCo	TestCode: epht_w	Units: µg/L		Prep Date	Prep Date: 1/29/2008	RunNo: 21789	
	Batch ID: 9221	Test	Vo: MADEP EF	TestNo: MADEP EPH (eph_Wpr)		Analysis Date: 1/30/2008	3: 1/30/2008	SeqNo: 211768	
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Adjusted C11-C22 Aromatics	QN	100	WANT TO THE TAXABLE PROPERTY OF TA					Western the Post and Control of C	
C09-C18 Aliphatics	QN	100							
C19-C36 Aliphatics	QN	100							
Unadjusted C11-C22 Aromatics	QN	100							
Surr: 1-Chlorooctadecane	65.00	0	100	0	65.0	40	140		
Surr: o-Terphenyl	26.00	0	100	0	26.0	40	140		
Sample ID: LCS-9221	SampType: LCS	TestCo	TestCode: epht_w	Units: µg/L		Prep Date	Prep Date: 1/29/2008	RunNo: 21789	
Client ID: ZZZZZ	Batch ID: 9221	Test	No: MADEP EF	TestNo: MADEP EPH (eph_Wpr)		Analysis Date: 1/30/2008	1/30/2008	SeqNo: 211769	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	Qual
C09-C18 Aliphatics	QN	100	100	0	63.0	40	140		
C19-C36 Aliphatics	QN	100	100	0	58.0	40	140		
Unadjusted C11-C22 Aromatics	ΩN	100	100	0	63.0	40	140		
Surr: 1-Chlorooctadecane	63.00	0	100	0	63.0	40	140		
Surr: o-Terphenyl	62.00	0	100	0	62.0	40	140		

RPD outside recovery limits

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E Value above quantitation range
ND Not Detected at the Reporting Limit

Analyte detected below quantitation limits Spike Recovery outside recovery limits

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BRL Below Reporting Limit

Qualifiers:

CLIENT:

ANALYTICAL QC SUMMARY REPORT

TestCode: HG-245.1_W

0801281 Work Order: Project:

91-205546

Complete in strain	70 COM 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F									
Sample ID: MBLN-9223	Sampighe: MBLA	l estco	Je: HG-245.1	lestcode: HG-Z45.1_W Units: mg/L		Prep Date	Prep Date: 1/29/2008	r	KunNo: 21757	757	
Client ID: ZZZZZ	Batch ID: 9223	Test	TestNo: E245.1	(SW7470A/E2	•	Analysis Date	Analysis Date: 1/29/2008	(I)	SeqNo: 211434	1434	
Analyte	Result	POL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	Val	%RPD	%RPD RPDLimit Qual	Qual
Mercury	QN	ND 0.000500									

THE RESERVE OF THE PERSON OF T									
Sample ID: LCS-9223	SampType: LCS	TestCor	Je: HG-245.1	TestCode: HG-245.1_W Units: mg/L		Prep Date	Prep Date: 1/29/2008	RunNo: 21757	
Client ID: ZZZZZ	Batch ID: 9223	Test	TestNo: E245.1	(SW7470A/E2		Analysis Date	Analysis Date: 1/29/2008	SeqNo: 211429	
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual	·
Mercury	0.005320	0.000500	0.005	0	106	80	120		

RPD outside recovery limits

E Value above quantitation range ND Not Detected at the Reporting Limit

> Analyte detected below quantitation limits Spike Recovery outside recovery limits

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BRL Below Reporting Limit

Qualifiers:

CLIENT: ECS

Work Order: 0801281

Project: 91-205546

TestCode: TPH_W

Sample ID: WB1-9208 Client ID: ZZZZZ	SampType: MBLK Batch ID: 9208	TestCod	TestCode: TPH_W TestNo: 8100M	Units: mg/L (8100M)		Prep Date: 1/29/2008 Analysis Date: 1/29/2008	1/29/2008 1/29/2008	RunNo: 21772 SeqNo: 211556	
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit Hig	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual	t Qual
Total Petroleum Hydrocarbons Surr: o-Terphenyl	ON 00.67	0.200	100	0	79.0	40	140		
Sample ID: LW1-9208 Client ID: ZZZZZ	SampType: LCS Batch ID: 9208	TestCoc	TestCode: TPH_W TestNo: 8100M	Units: mg/L (8100M)		Prep Date: 1/29/2008 Analysis Date: 1/29/2008	1/29/2008 1/29/2008	RunNo: 21772 SeqNo: 211554	
Analyte	Result	POL	SPK value	SPK value SPK Ref Val	%REC	LowLimit Hig	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	t Qual
Total Petroleum Hydrocarbons Surr: o-Terphenyl	1.694	0.200	100	0	84.7 97.0	40	140 140		

RPD outside recovery limits

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E Value above quantitation range ND Not Detected at the Reporting Limit

Analyte detected below quantitation limits Spike Recovery outside recovery limits

BRL Below Reporting Limit

Qualifiers:

CLIENT: ECS

Work Order: 0801281

Project: 91-20

91-205546

TestCode: TRC_W

Sample ID: MB-R21747	SampType: MBLK	TestCo	TestCode: TRC_W	Units: mg/L		Prep Date:		RunNo: 21747		
Client ID: ZZZZZ	Batch ID: R21747	Test	TestNo: Hach 8167		7	Analysis Date: 1/29/2008	1/29/2008	SeqNo: 211327		
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit H	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual	imit	λual
Total Residual Chlorine	ON	0.162								
Sample ID: LCS-R21747	SampType: LCS	TestCod	TestCode: TRC_W	Units: mg/L		Prep Date:		RunNo: 21747		
Client ID: 2222	Batch IU: K21747	est	lestNo: Hach 8167		-	Analysis Date: 1/29/2008	1/29/2008	SeqNo: 211328		
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit H	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual	imit	nal
Total Residual Chlorine	1.010	0.162	_	0	101	85	115			

RPD outside recovery limits

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E Value above quantitation range ND Not Detected at the Reporting Limit

Analyte detected below quantitation limits Spike Recovery outside recovery limits

BRL Below Reporting Limit

Qualifiers:

CLIENT:

0801281 Work Order:

Project:

91-205546

ANALYTICAL QC SUMMARY REPORT TestCode: TSS

Sample ID: MB-R21745	SampType: MBLK	TestCode: TSS	le: TSS	Units: mg/L		Prep Date:		RunNo: 21745		
Client ID: ZZZZZ	Batch ID: R21745	TestN	TestNo: E160.2		•	Analysis Date: 1/28/2008	1/28/2008	SeqNo: 211313	ĸ	
Analyte	Result	POL	SPK value	SPK value SPK Ref Val	%REC	LowLimit Hig	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual	PDLimit	Qual
Total Suspended Solids	QN	4.00								
Sample ID: LCS-R21745 Client ID: ZZZZZ	SampType: LCS Batch ID: R21745	TestCode: TSS TestNo: E160	ide: TSS No: E160.2	Units: mg/L		Prep Date: Analysis Date: 1/28/2008	1/28/2008	RunNo: 21745 SeqNo: 211314	4	
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit Hig	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual	PDLimit	Qual
Total Suspended Solids	83.00	4.00	85.9		95.5	80	120			

ANALYTICAL QC SUMMARY REPORT

ECS 0801281 91-205546

Work Order: Project:

CLIENT:

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Sample ID: MBLK Samp	SampTvpe: MBLK	TestCoc	TestCode: VPH W2	Units: na/L		Prep Date:	The state of the s	RinNo. 21773	-
	Batch ID: R21773	TestN	TestNo: VPH			Analysis Date:	1/29/2008	SeqNo: 211563	
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
C9-C10 Aromatic Hydrocarbons	QN	75.0							
Unadjusted C5-C8 Aliphatic Hydrocarbo	QN	75.0							
Unadjusted C9-C12 Aliphatic Hydrocarb	QN	75.0							
Methyl Tert-Butyl Ether	Q	5.00							
Benzene	ΩN	5.00							
Toluene	Q	5.00							
Ethylbenzene	ΩN	5.00							
m,p-Xylene	QN	2.00							
o-Xylene	QN	5.00							
Naphthalene	QN	20.0							
Adjusted C5-C8 Aliphatic Hydrocarbons	QN	75.0							
Adjusted C9-C12 Aliphatic Hydrocarbon	QN	75.0							
Surr: 2,5-Dibromotoluene FID	85.57	0	100	0	85.6	70	130		
Surr: 2,5-Dibromotoluene PID	72.27	0	100	0	72.3	20	130		
Sample ID: LCS SampT	SampType: LCS	TestCod	TestCode: VPH_W2	Units: µg/L		Prep Date:		RunNo: 21773	
Client ID: ZZZZ Batch	Batch ID: R21773	TestN	TestNo: VPH			Analysis Date: 1/29/2008	: 1/29/2008	SeqNo: 211561	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
C9-C10 Aromatic Hydrocarbons	82.06	75.0	100	2.363	79.7	70	130		
Unadjusted C5-C8 Aliphatic Hydrocarbo	619.8	75.0	009	52.8	94.5	20	130		
Unadjusted C9-C12 Aliphatic Hydrocarb	511.7	75.0	009	22.87	81.5	20	130		
Methyl Tert-Butyl Ether	93.26	5.00	100	0	93.3	70	130		
Benzene	95.92	5.00	100	0	95.9	70	130		
Toluene	105.2	5.00	100	0	105	20	130		
Ethylbenzene	108.4	5.00	100	0	108	70	130		
m,p-Xylene	237.3	5.00	200	0	119	20	130		
o-Xylene	103.8	5.00	100	0	104	70	130		
Naphthalene	71.59	20.0	100	0	71.6	70	130		
Surr: 2,5-Dibromotoluene FID	89.68	0	100	0	89.7	70	130		
Qualifiers: BRL Below Reporting Limit		TTTTO TO THE STATE OF THE STATE	E Value	Value above quantitation range	1ge	MARIA A PARA	H Holding times fo	Holding times for preparation or analysis exceeded	 ps
J Analyte detected below quantitation limits	quantitation limits		ND Not De	Not Detected at the Reporting Limit	g Limit		R RPD outside recovery limits	overy limits	
S Spike Recovery outside recovery limits	recovery limits							Pag	Page 25 of 26

RPD outside recovery limits

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E Value above quantitation range ND Not Detected at the Reporting Limit

Analyte detected below quantitation limits Spike Recovery outside recovery limits

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BRL Below Reporting Limit

Qualifiers:

CLIENT:

0801281 Work Order:

Project:

91-205546

TestCode: VPH_W2

Sample ID: LCS	SampType: LCS	TestCoc	TestCode: VPH_W2	Units: µg/L		Prep Date:	'n		RunNo: 21773	73	
Client ID: ZZZZZ	Batch ID: R21773	Test	TestNo: VPH			Analysis Date	nalysis Date: 1/29/2008		SeqNo: 211561	561	
Analyte	Result	POL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	Ref Val	%RPD	%RPD RPDLimit Qual	Qual
Surr: 2,5-Dibromotoluene PID	83.03	0	100	0	83.0	20	130				

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CHAIN OF CUSTODY RECORD

GeoLabs, Inc. Environmental Laboratories 45 Johnson Lane, Braintree, MA 02184

Sample Handling: circle choice Filtration Done

Preservation

Data Delivery: circle choice (s)

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Special Instructions

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CT RCP (Reasonable Confidence Protocols) Requirements: circle choice (s)

State / Fed Program - Criteria Project: . Other . いったの (§)'-? g 2 PDF Phone: Format: Excel Turnaround: circle one ASAP 5 / 7-days 3-day Client: 45 1-day 2-day

MCP Methods

911-205546 Invoice to *: Project PO: email: Khurstak@ecsconswt.com 781)246-4863 Fæ: SUFF Address: 607 NCC+1 AVE NOXPRICIO NA Contact: KPIN HUSGACK

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* Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection cost.

Note: Homeowners and Law Firms must pay when dropping off samples. We accept cash, check and credit cards.

CT (PH-0148) NY(11796)

MA (MA - 015) PA (68-03417)

NH (2508) NJ (MA-009) RI (LA000252)

0 = 0ther

B = Bag P = Plastic V = Voa

A = Amber G = Glass S = Summa

7 = 0ther

5 = Na0H6 = MEOH

3 = H2S04

4 = Na2S203

2 = HN031= 19

0T = 0ther A = Air

S = Soil 0 = 0

DW = Drinking Water

GW = Ground Water WW = Waste Water

SL = Sludge

Date / Time

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Special Instructions 13 ppm

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CT RCP (Reasonable Confidence Protocols) State / Fed Program - Criteria Requirements: circle choice (s) Invoice to *: Project PO: Project: _ (email: Khurstalcoecsconswt.com MCP Method Other 246 -4867 746 - 8897 GW-1 90 781 18/ Data Delivery: circle choice (s) email PDF Phone: Fax: Suite II Format: Excel Fax Turnaround: circle one ASAP MOKEFIELD NA Address: COJ NCHO AVE 5 / 7-days 3-day Khucstok Client: 位 1-day 2-day Contact:

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Matrix Codes:			Received on Ice	Preservatives			CONTRACTOR OF THE PROPERTY OF	Containers:		
GW = Ground Water	DW = Drinking Water S = Soil	A = Air		1 = Hcl	3 = H2S04	5 = NaOH	7 = Other	A = Amber G = Glass	B = Bag p plactic	0 = Other
WW = Waste Water	SL = Sludge $0 = 0il$	OT = Other		2 = HN03 ²	4 = Na2S203	6 = MEOH		S = Summa	V = Voa	
Relinquished by:	hatinan Kood	Date / Time	112408 16:21	Received by:				Date / Time		
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